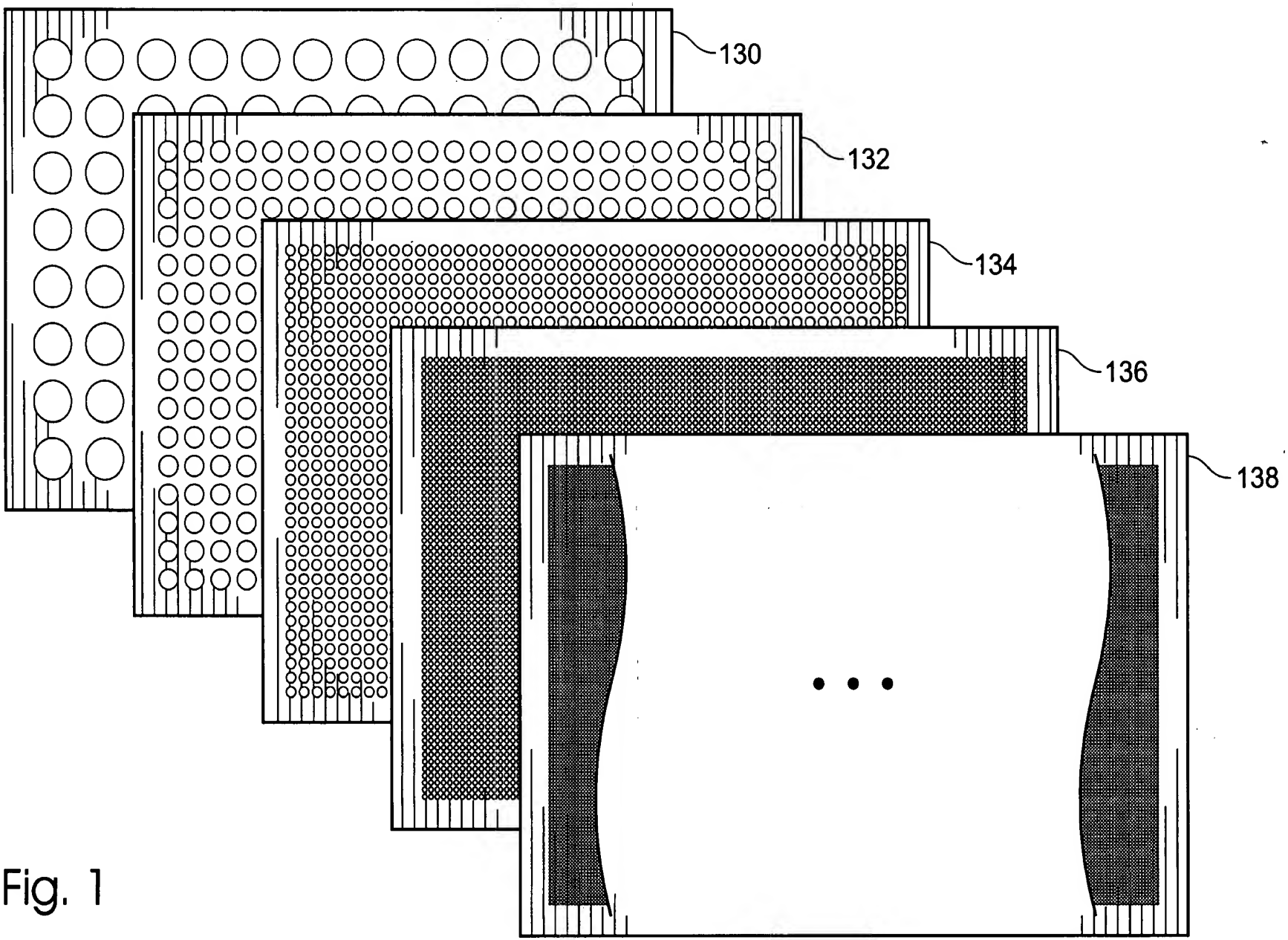


Fig. 1

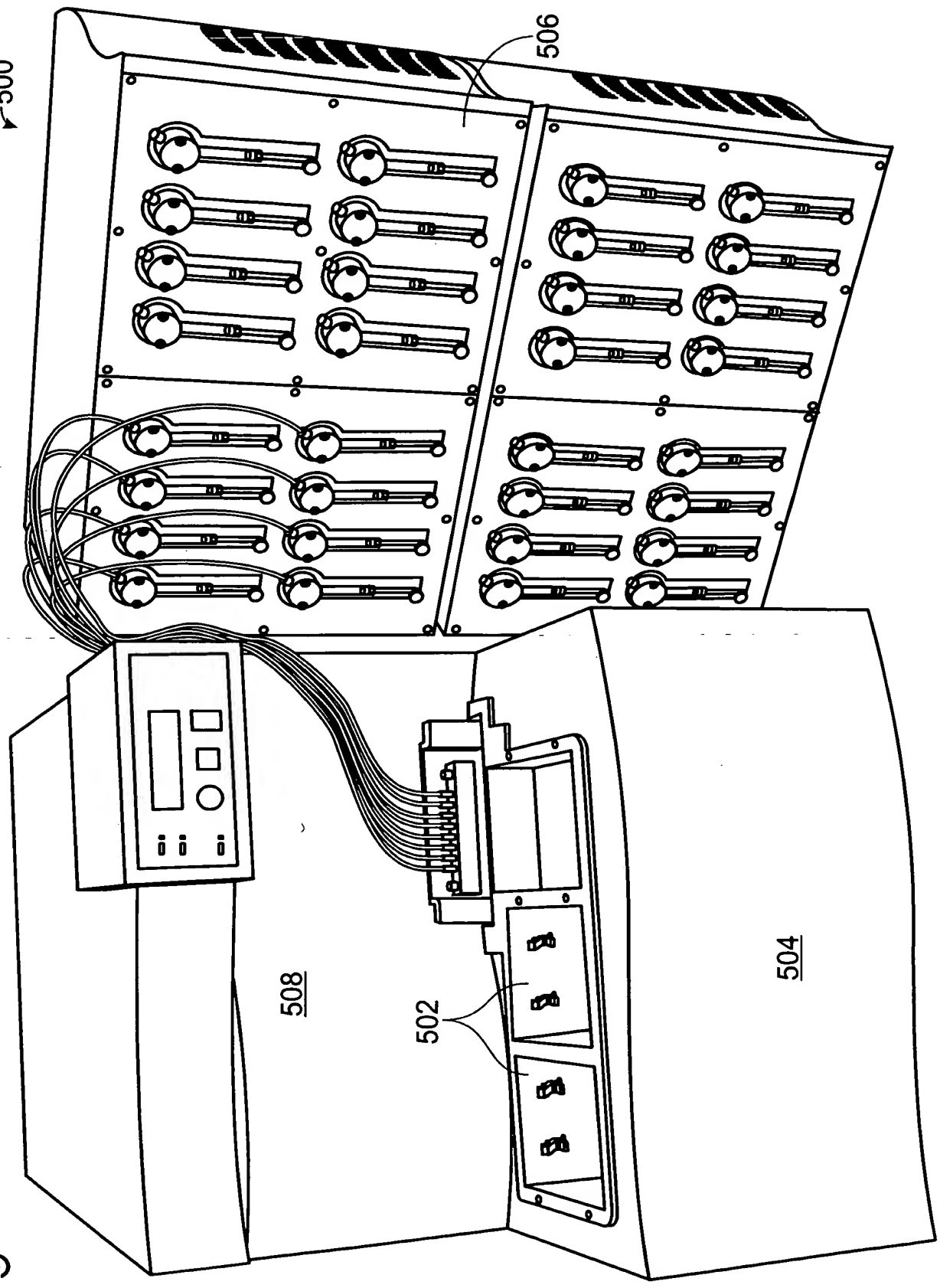
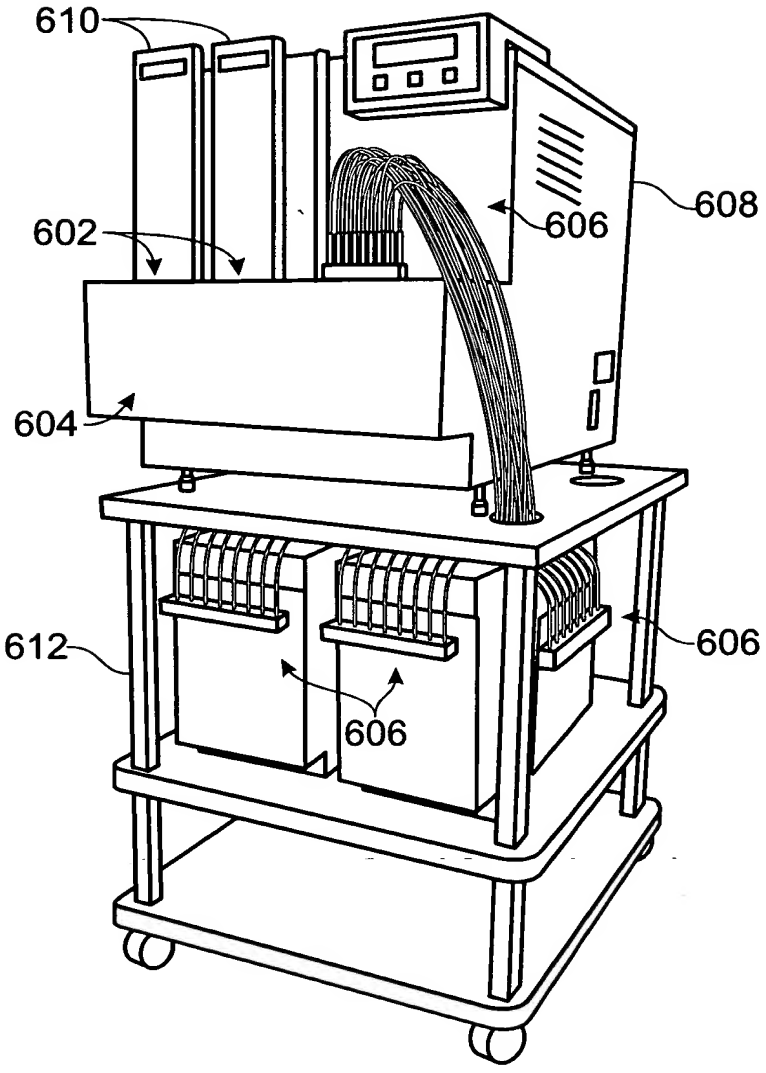


Fig. 2

Fig. 3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606
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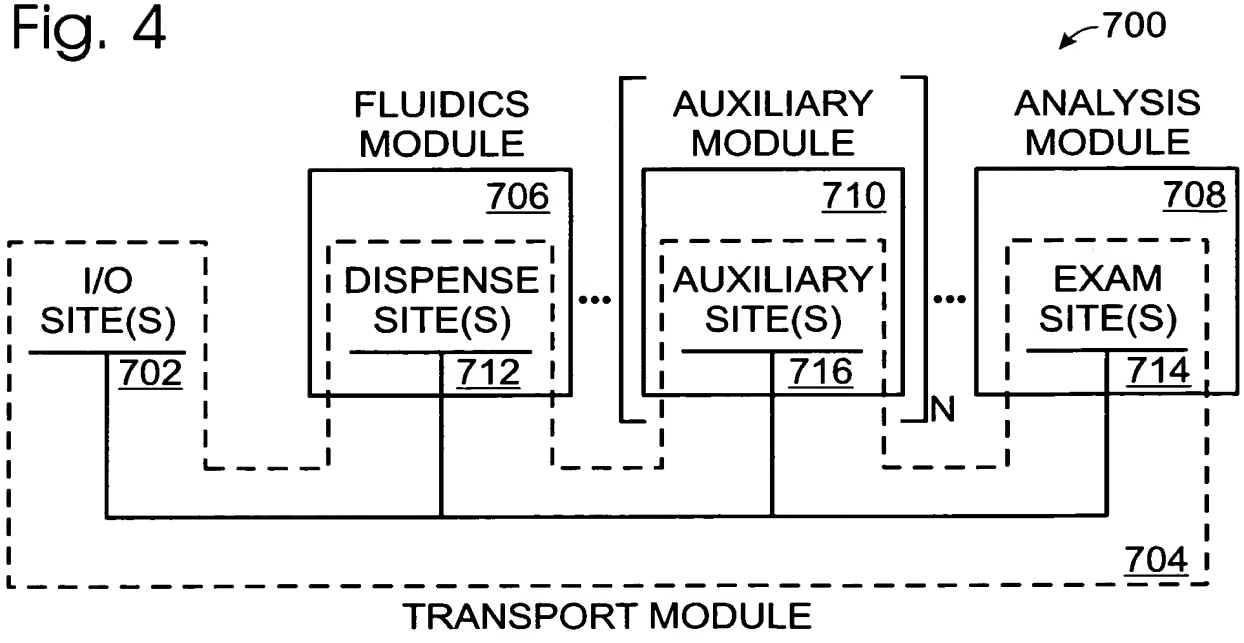
612
606
606

Fig. 4


700
FLUIDICS MODULE
AUXILIARY MODULE
ANALYSIS MODULE
706
710
708
I/O SITE(S)
DISPENSE SITE(S)
AUXILIARY SITE(S)
EXAM SITE(S)
702
712
716
714
N
704
TRANSPORT MODULE

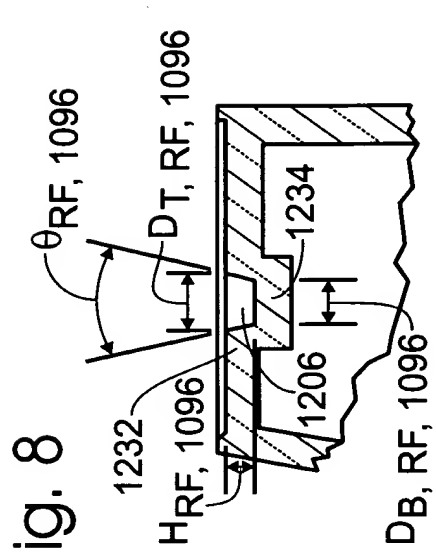


Fig. 8

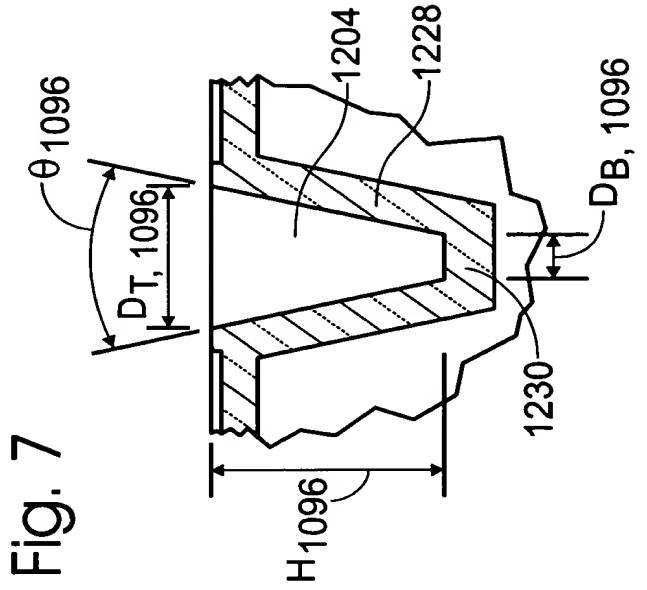


Fig. 7

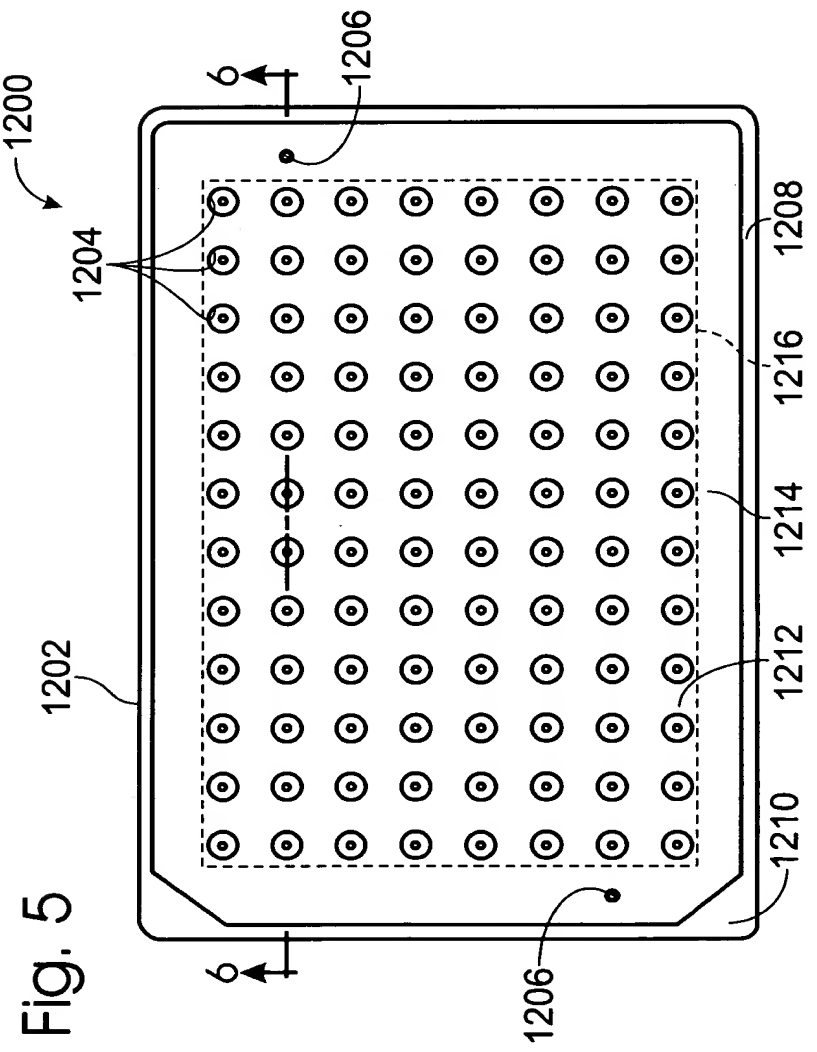


Fig. 5

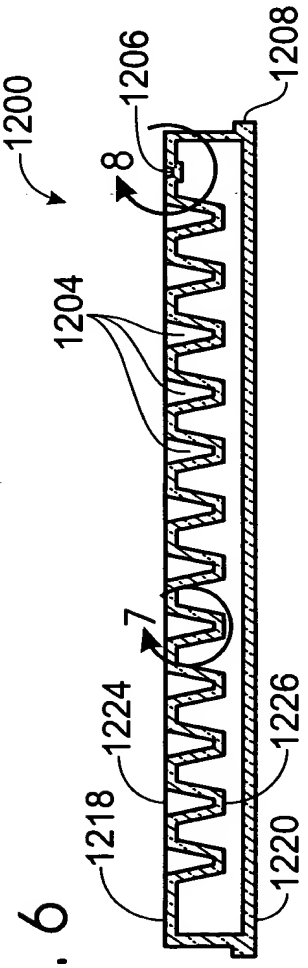


Fig. 6

Fig. 9

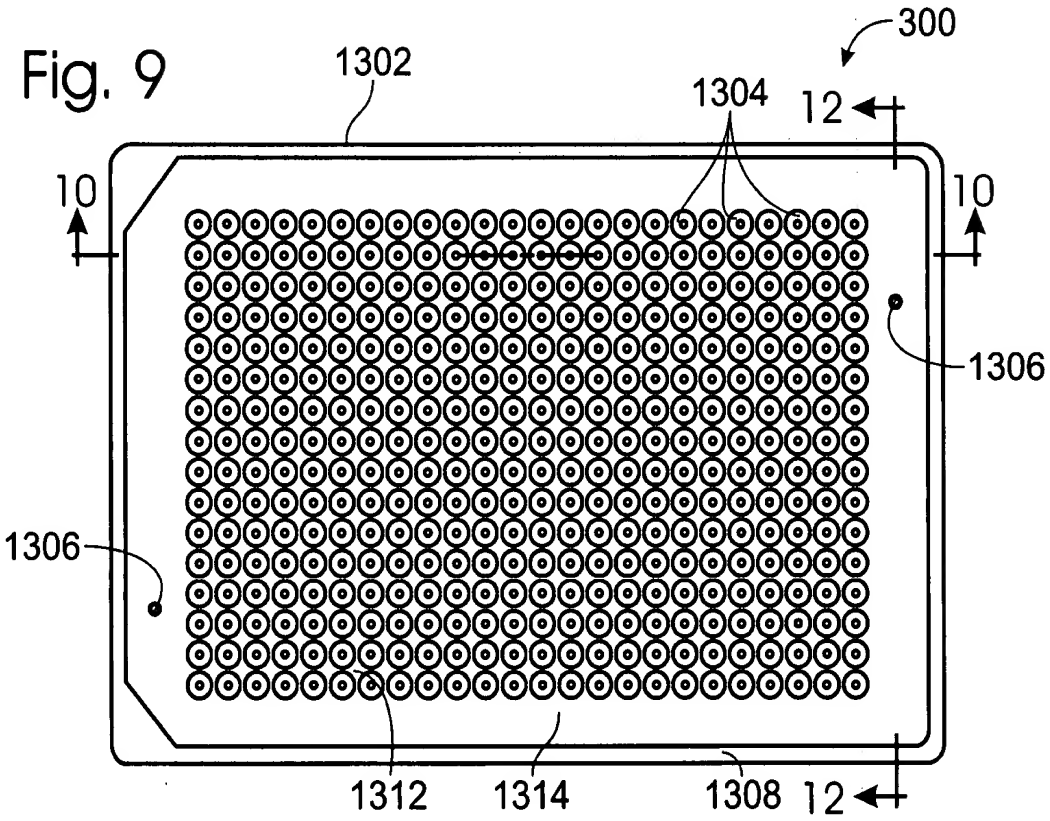


Fig. 10

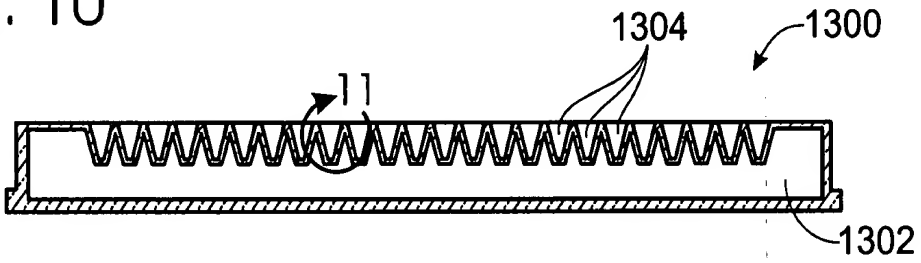


Fig. 12

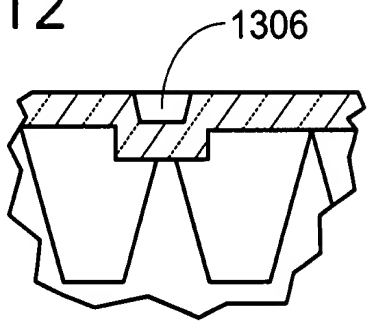


Fig. 11

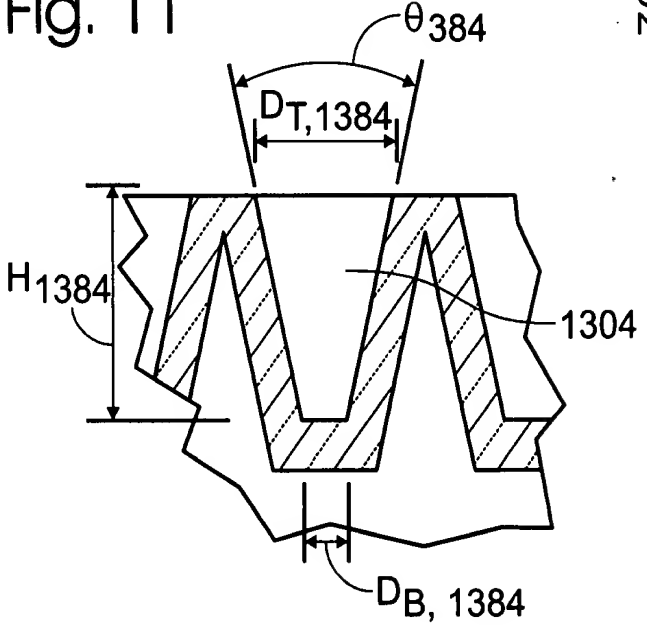


Fig. 13

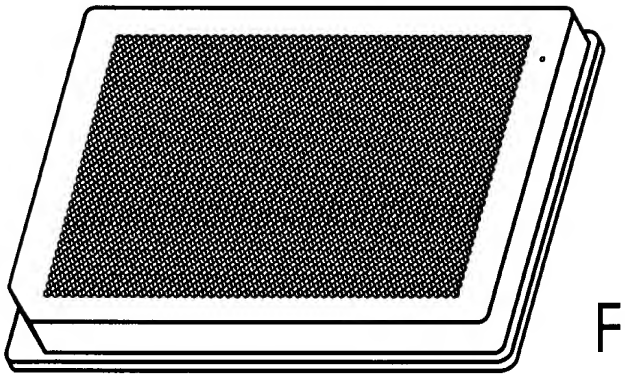


Fig. 14

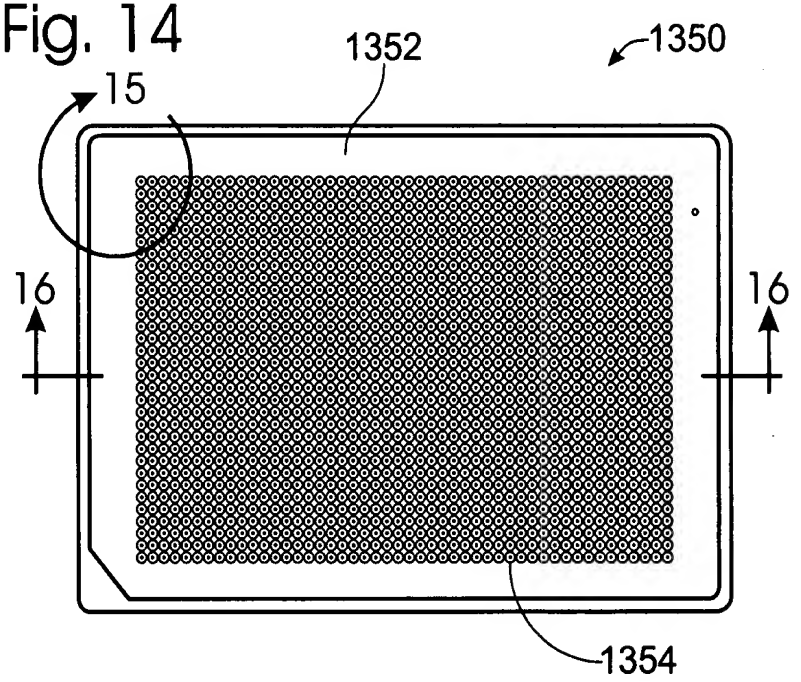


Fig. 15

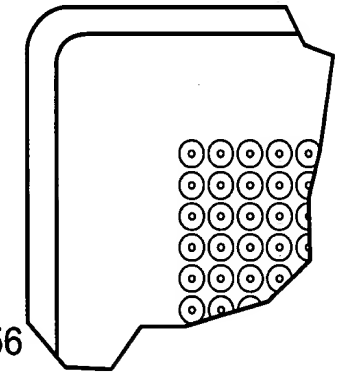


Fig. 17

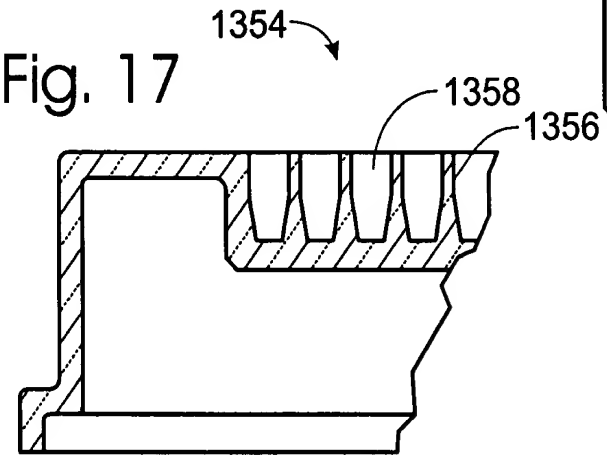
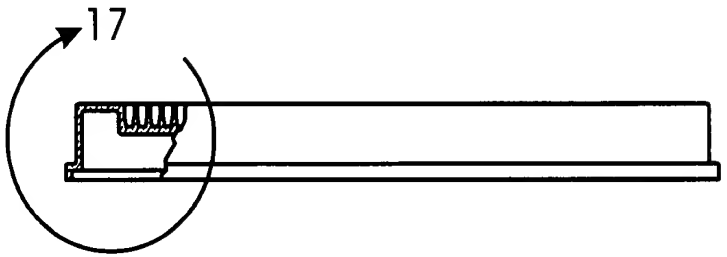


Fig. 16



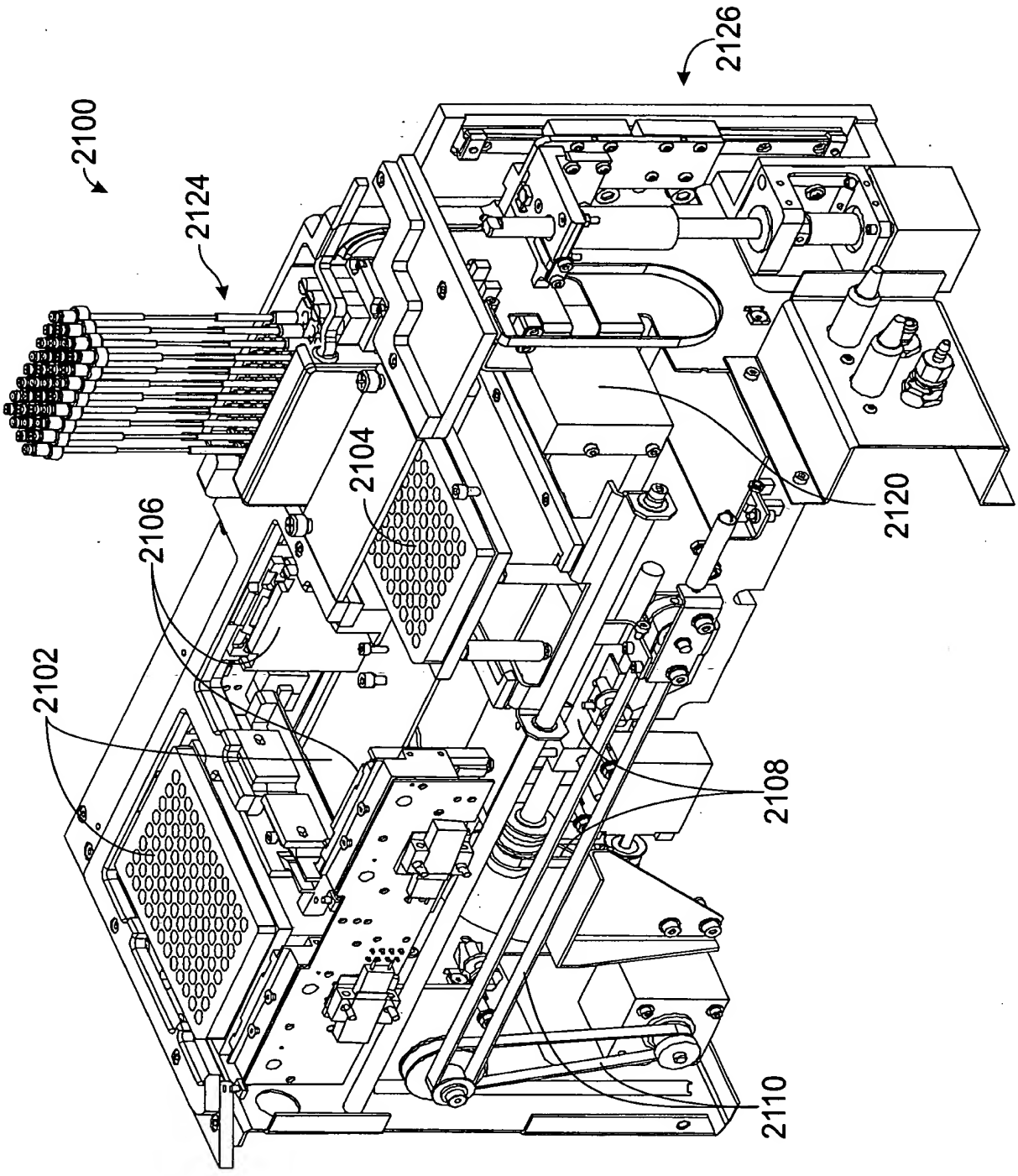


Fig. 18

Fig. 19

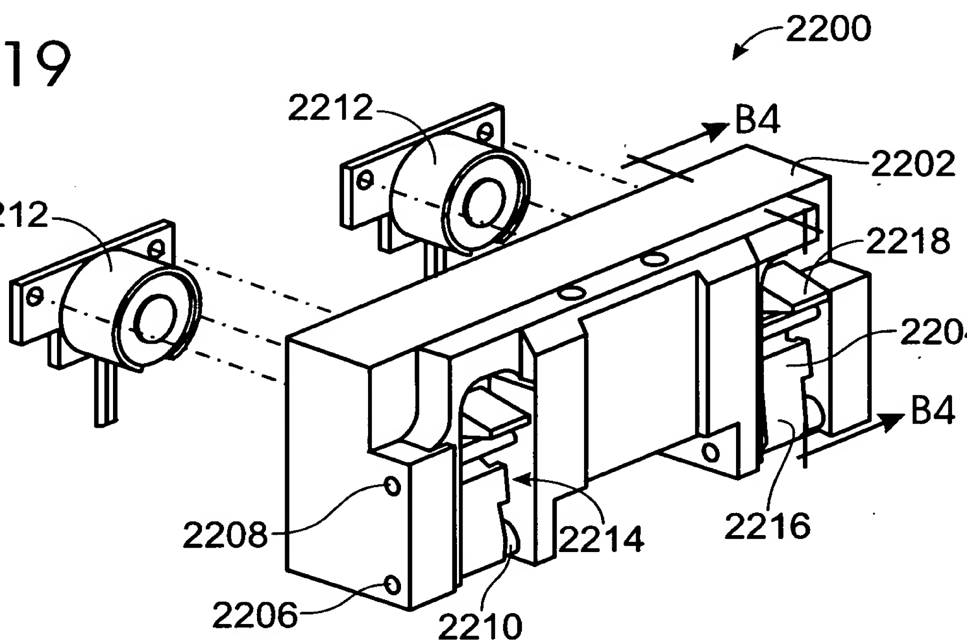


Fig. 20

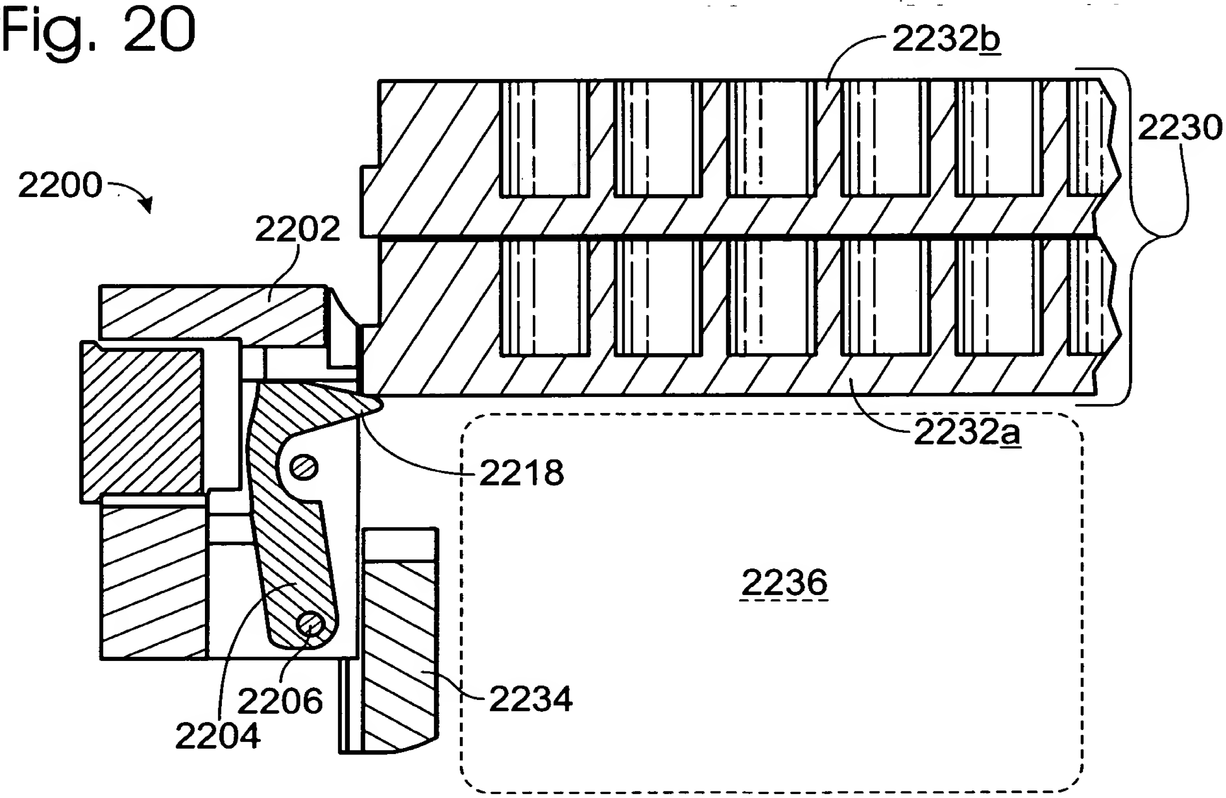


Fig. 21 (INPUT CYCLE)

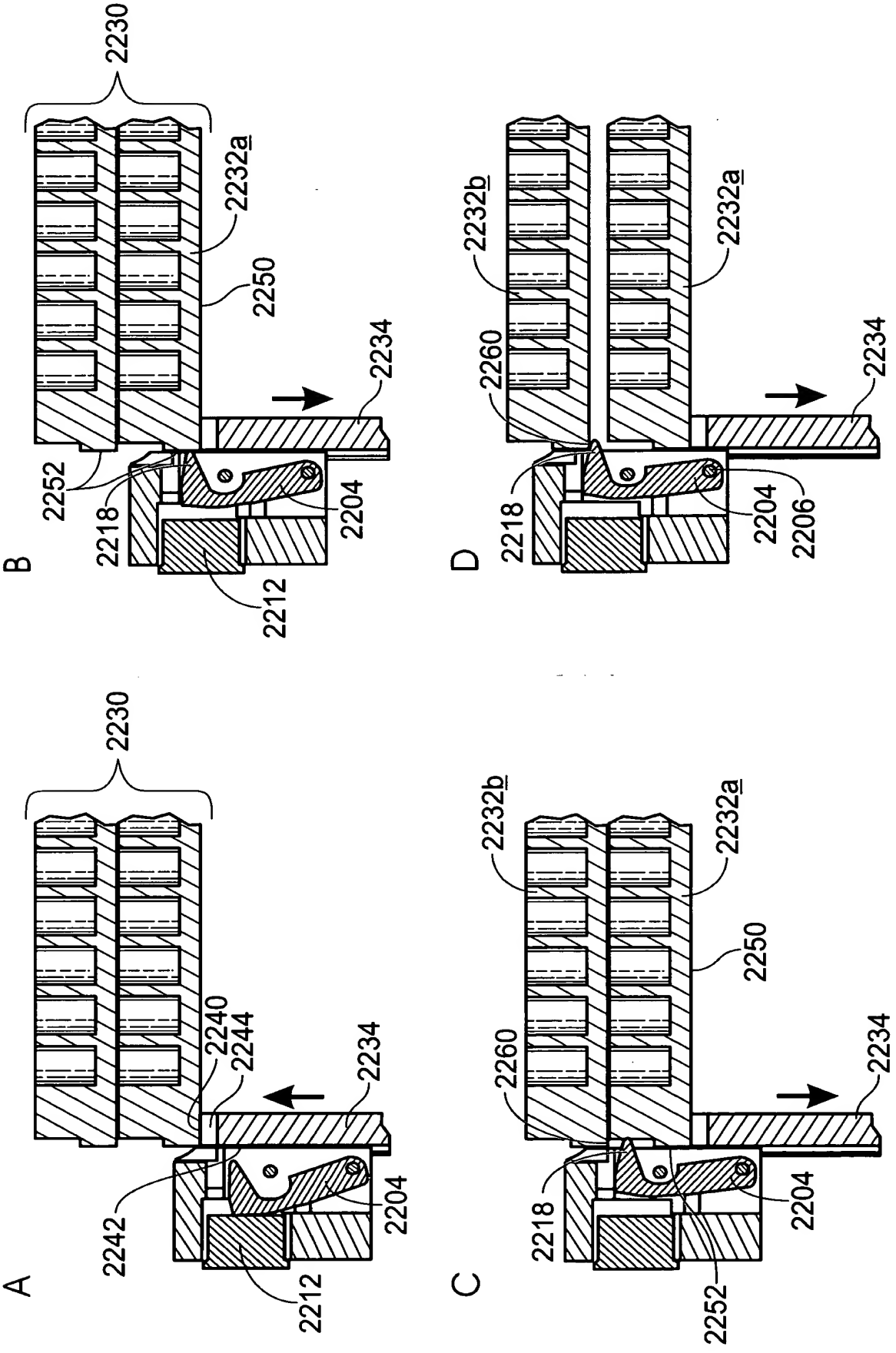


Fig. 22 (OUTPUT CYCLE)

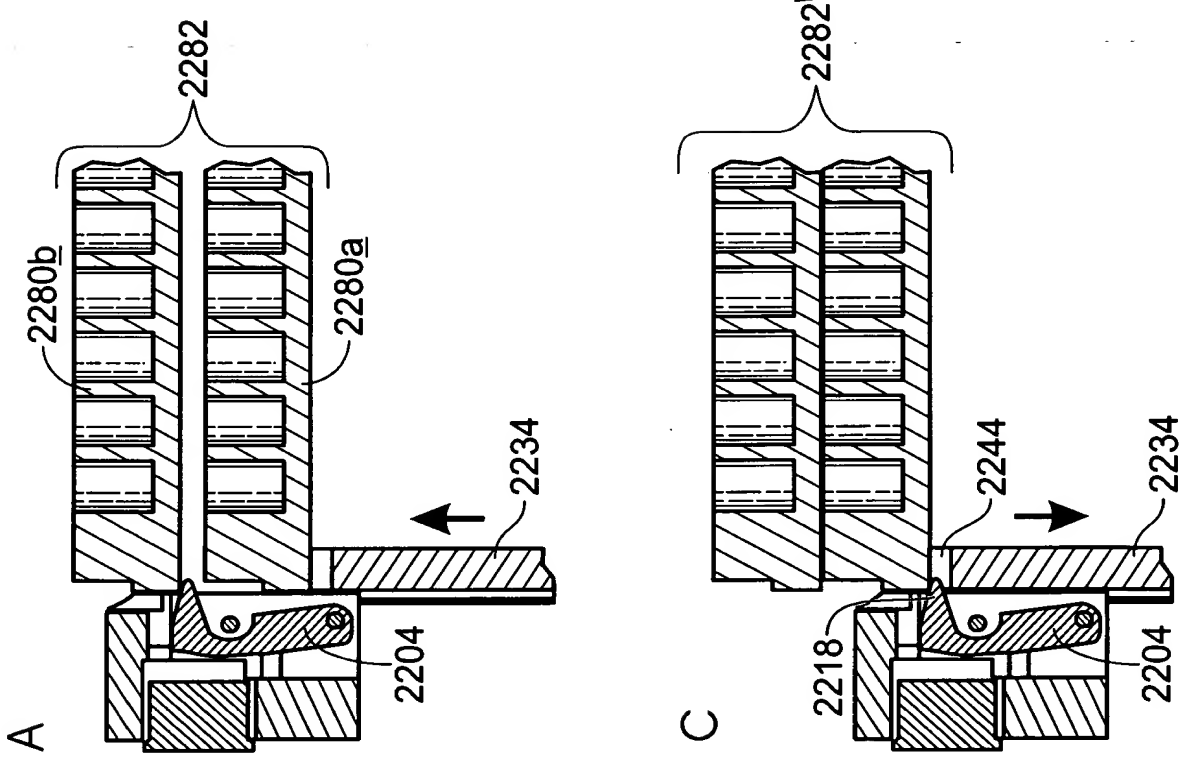
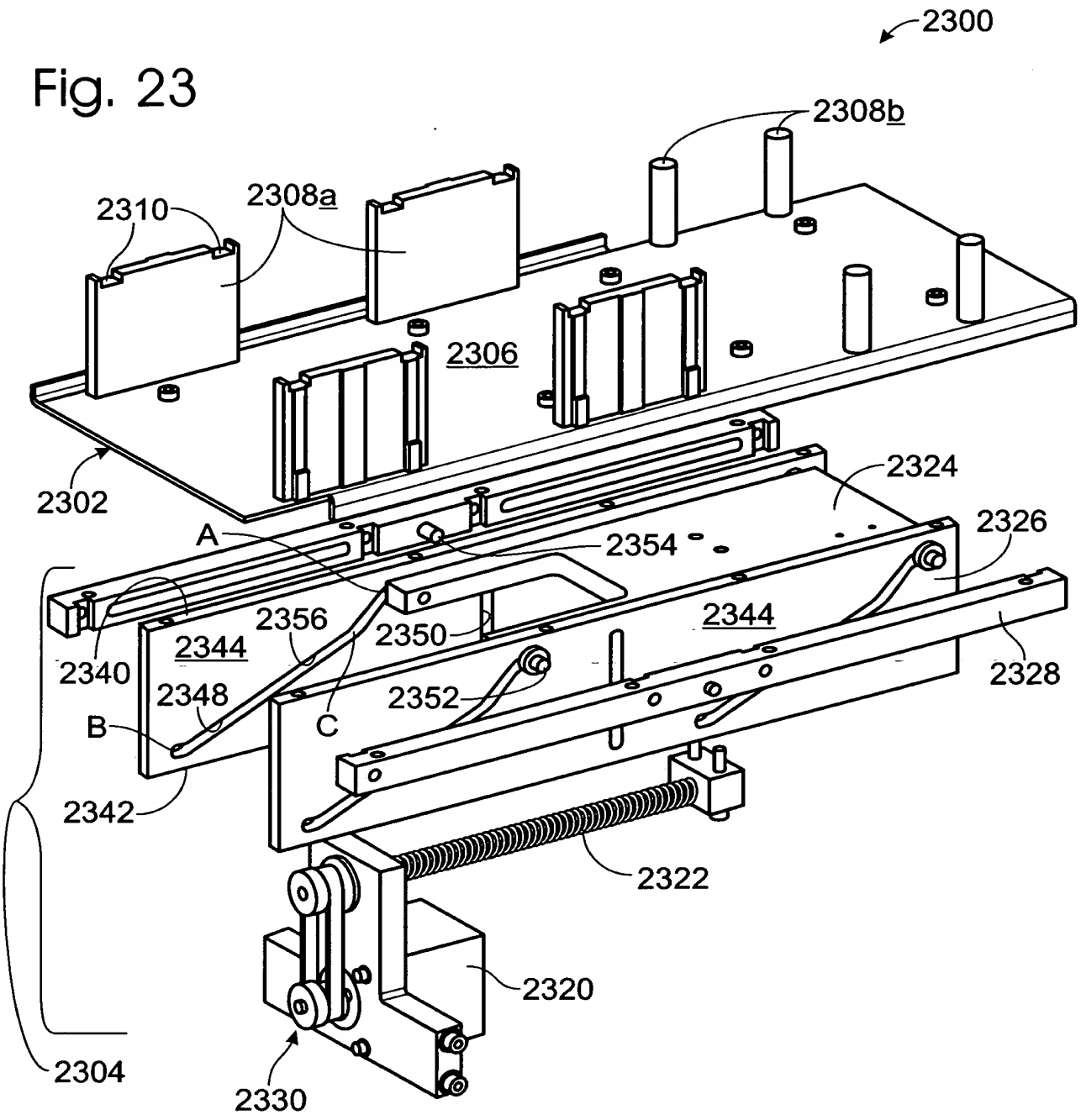


Fig. 23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2308b
2310
2308a
2306
2302
2324
2326
A
2354
2356
2350
2344
2344
2340
2348
2352
2328
B
C
2342
2322
2320
2304
2330

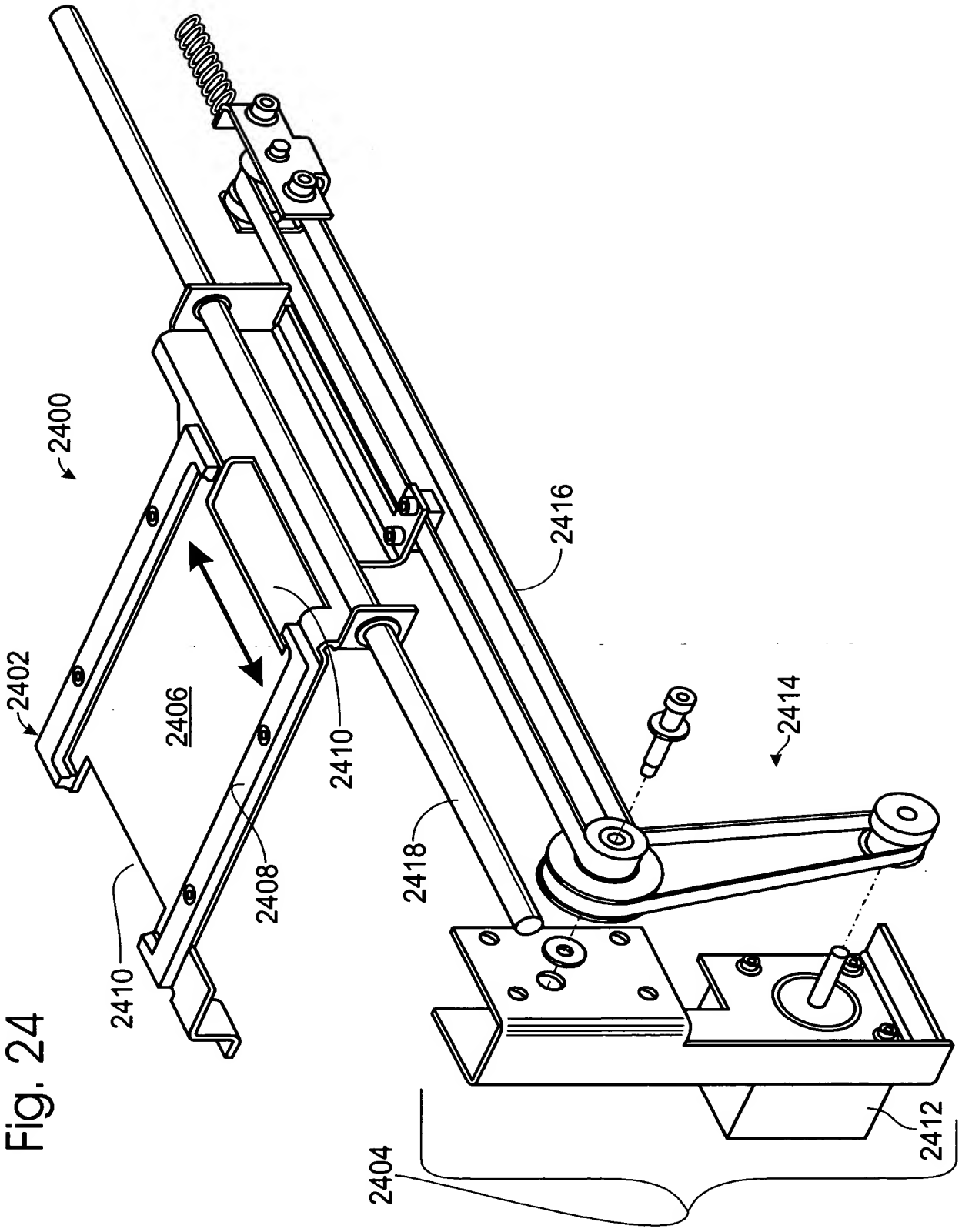


Fig. 24

Fig. 25

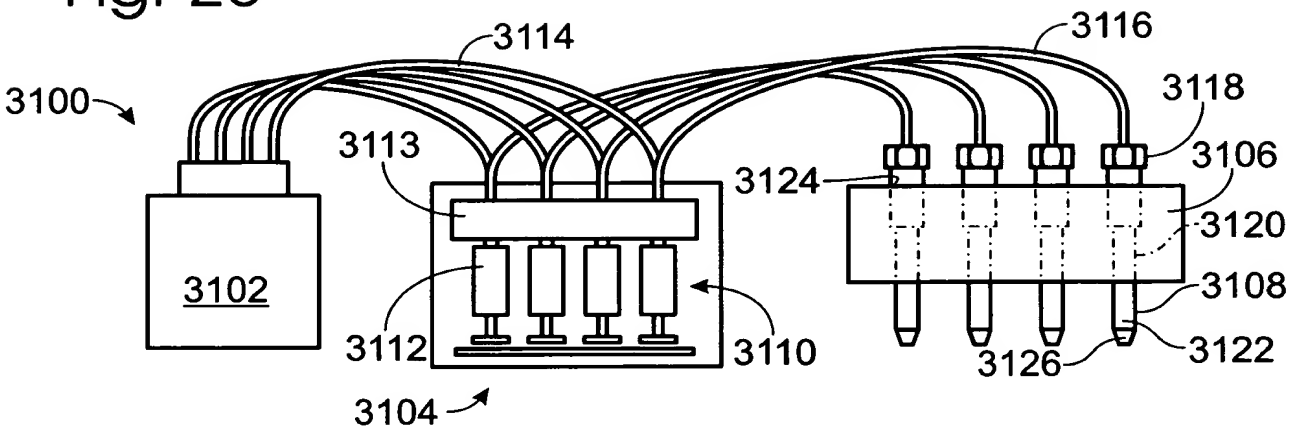


Fig. 26

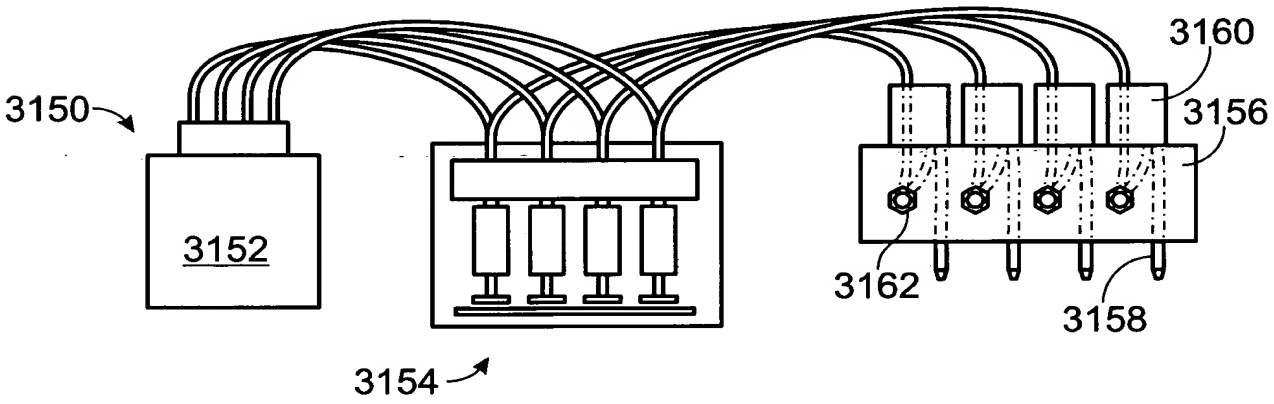


Fig. 27

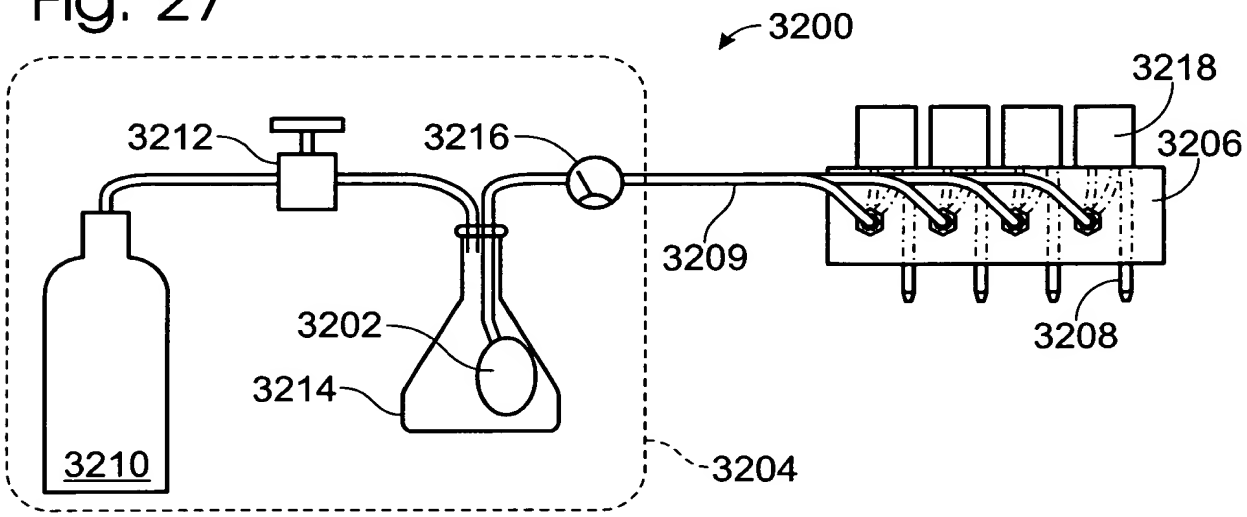


Fig. 28

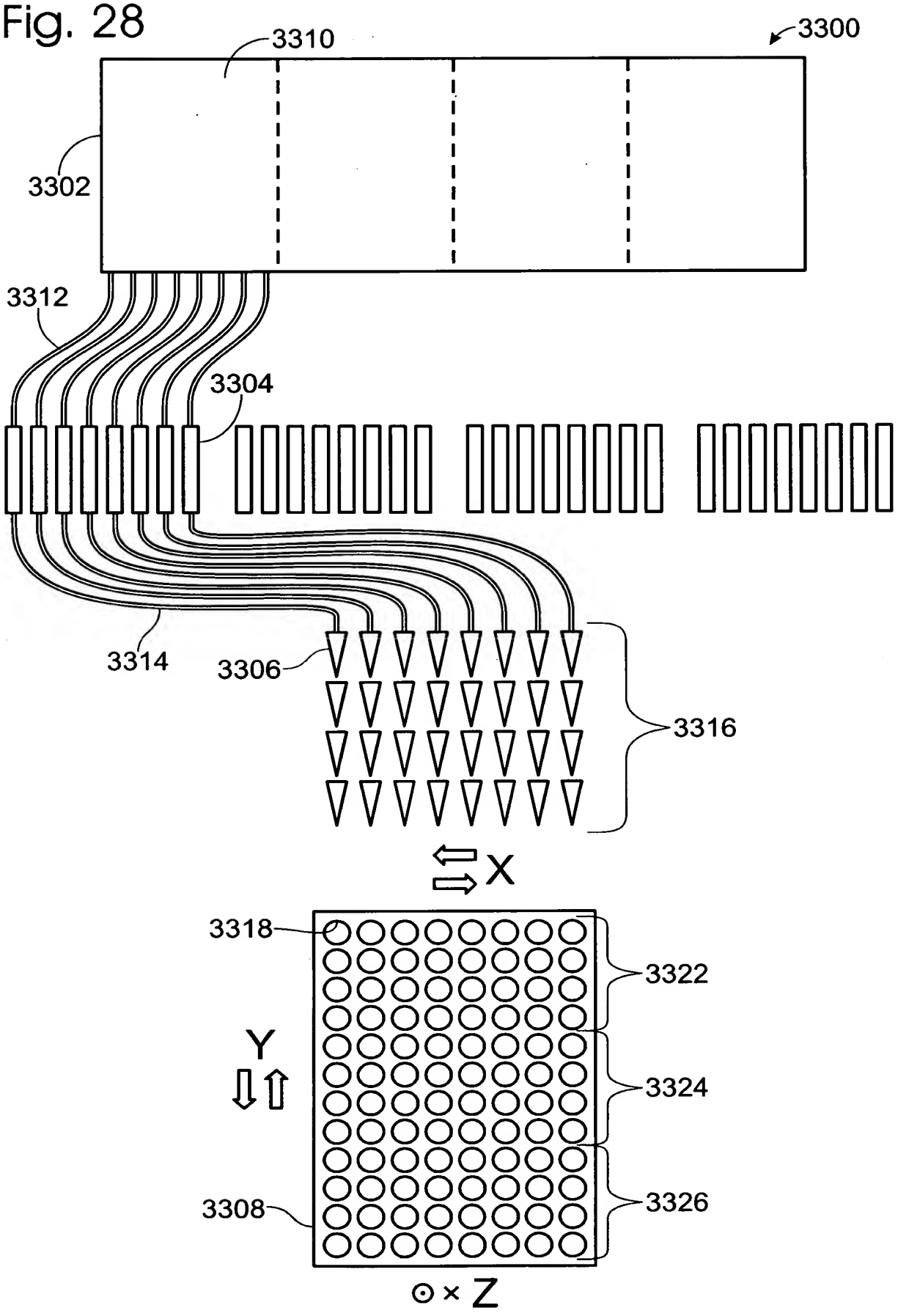

3310
3300
3302
3312
3304
3314
3306
3316
X
3318
3322
Y
3324
3308
3326
Z

Fig. 29

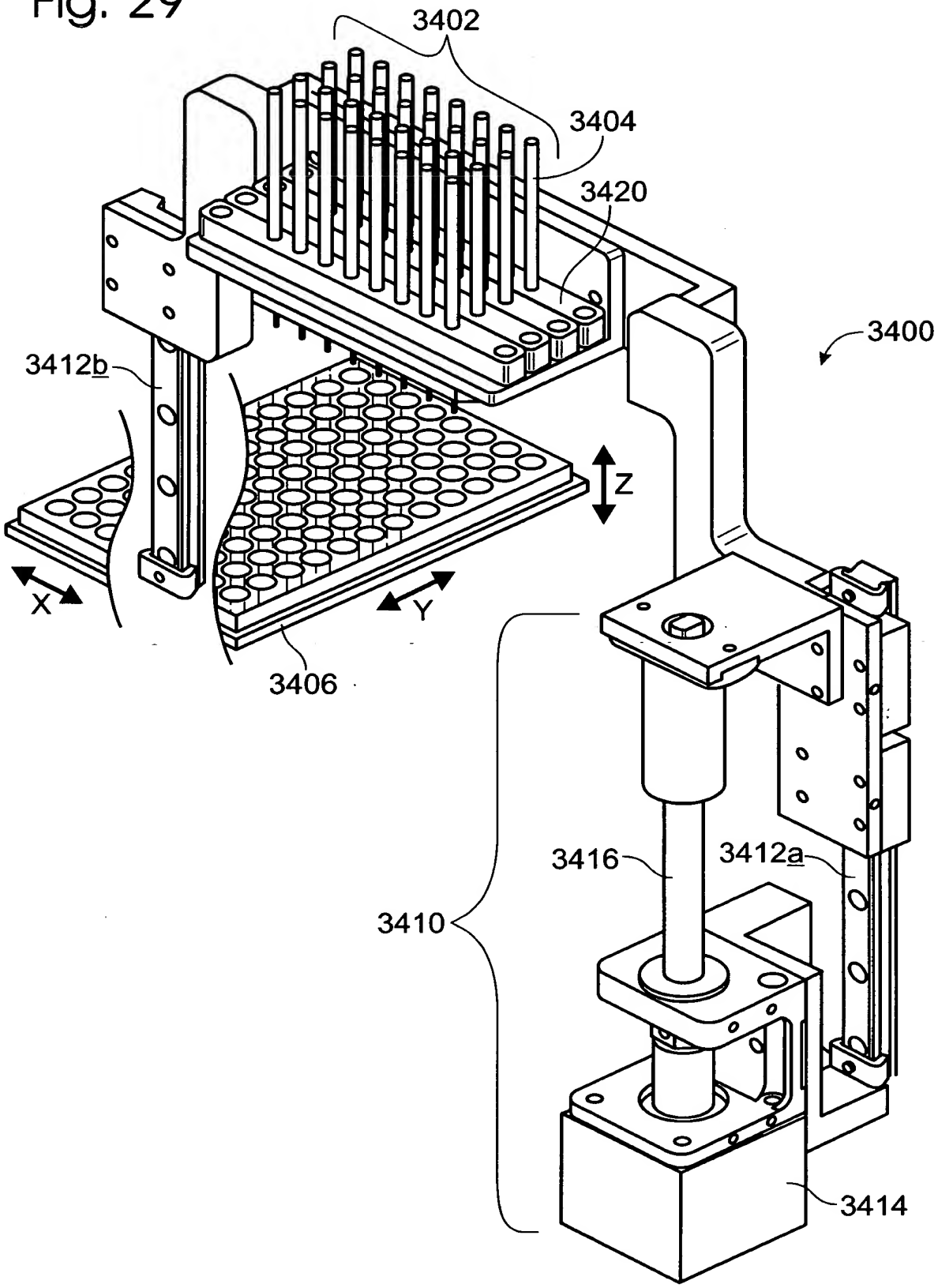
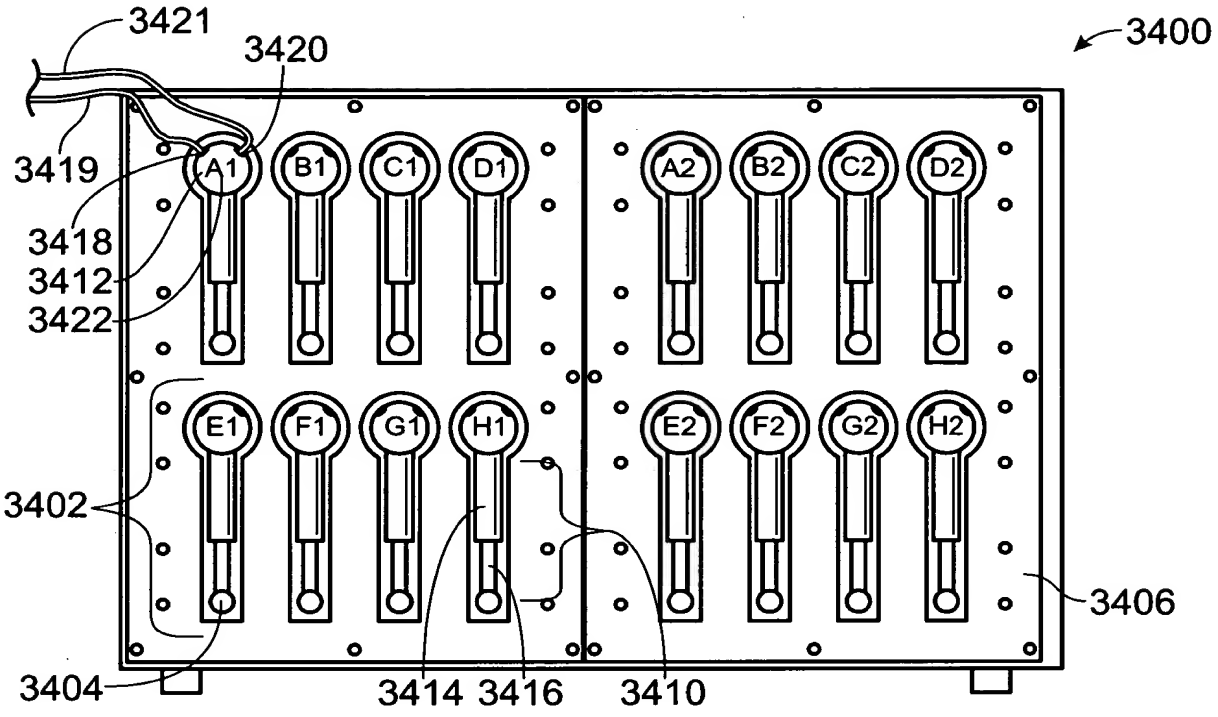


Fig. 30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3420
3400
3419
A1
B1
C1
D1
A2
B2
C2
D2
3418
3412
3422
E1
F1
G1
H1
E2
F2
G2
H2
3402
3406
3404
3414
3416
3410

Fig. 31

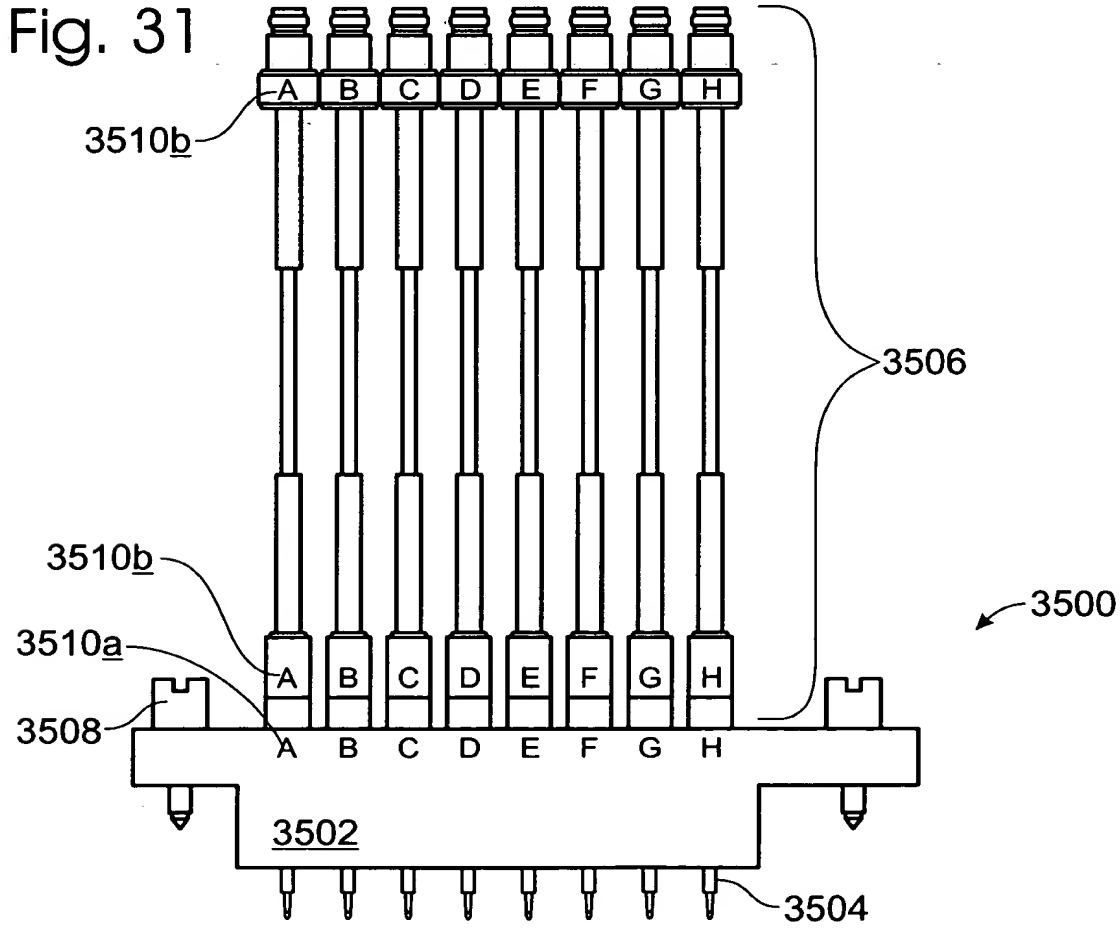
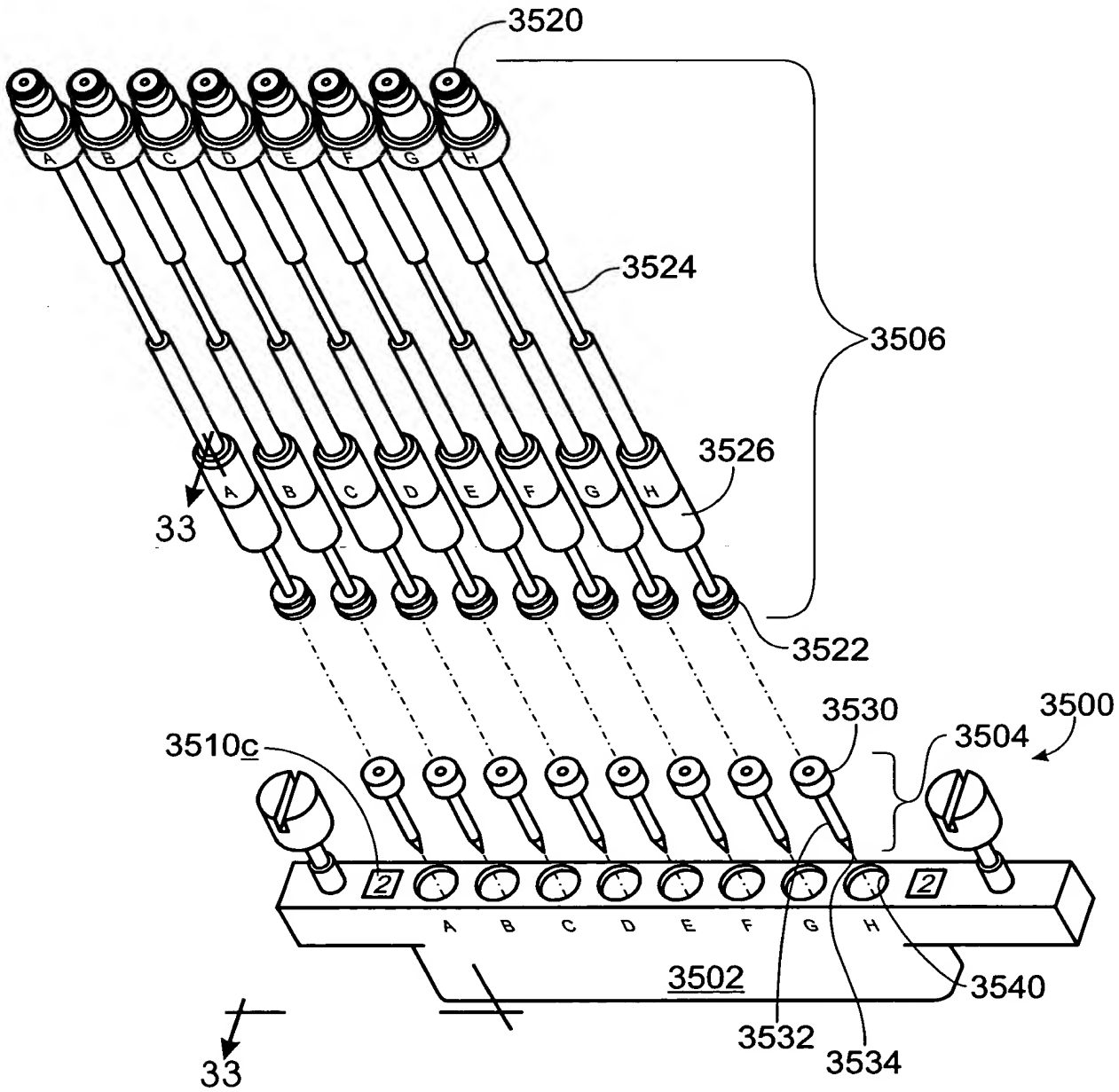

A
B
C
D
E
F
G
H
3510b
3506
3510b
3500
3510a
3508
3502
3504

Fig. 32


3520
3524
3506
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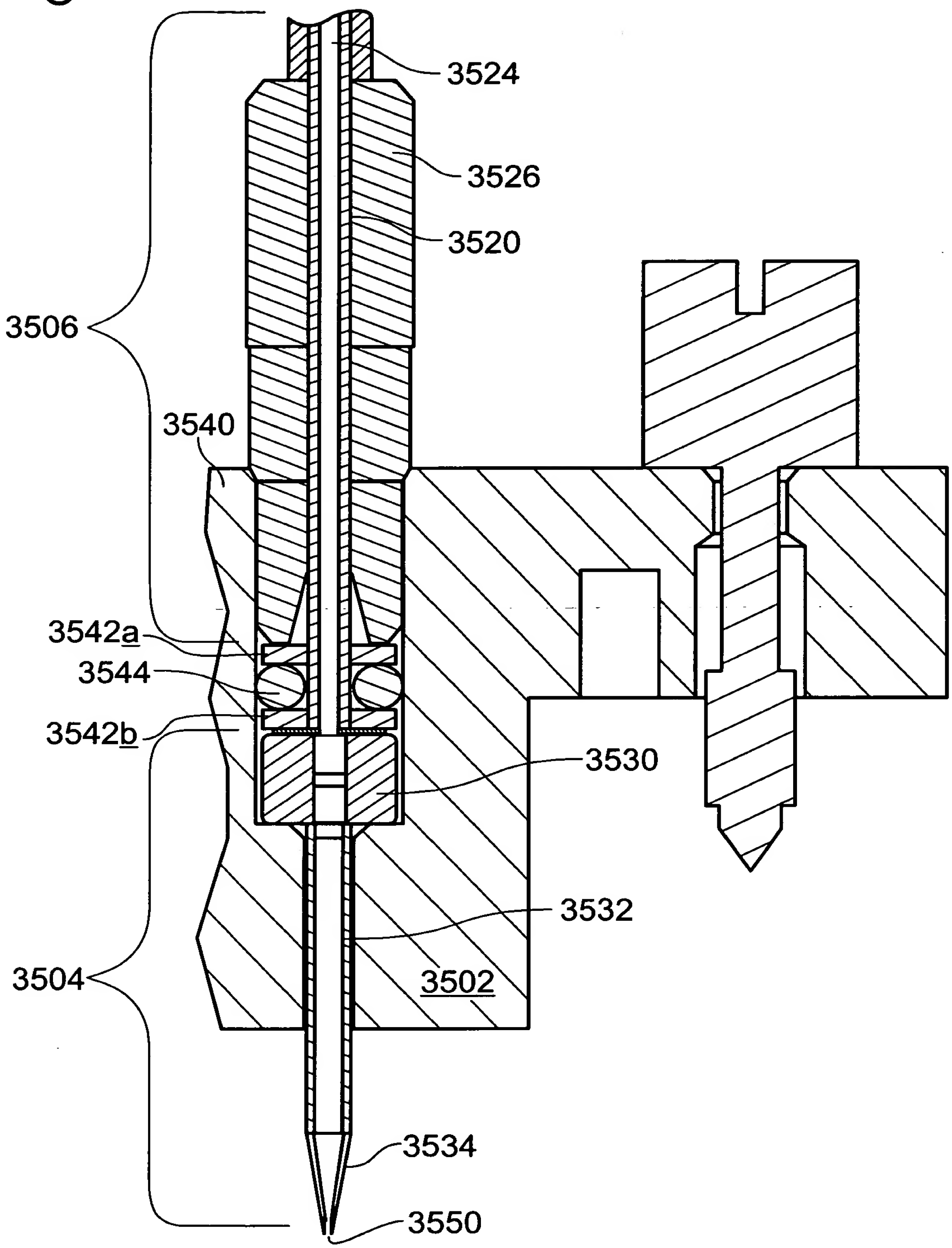
3522
33
3530
3500
3504
3510c
3502
3540
3532
3534
33

Fig. 33


3524
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3542a
3544
3542b
3530
3532
3502
3504
3534
3550

Fig. 34

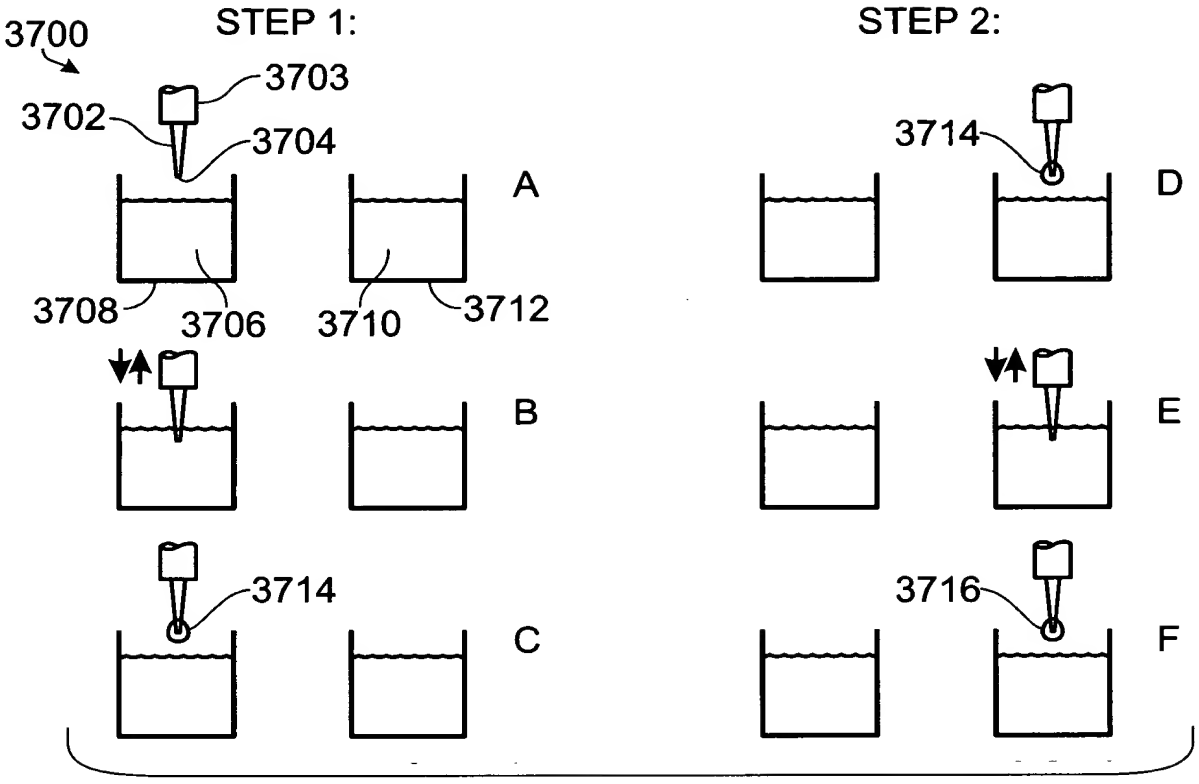
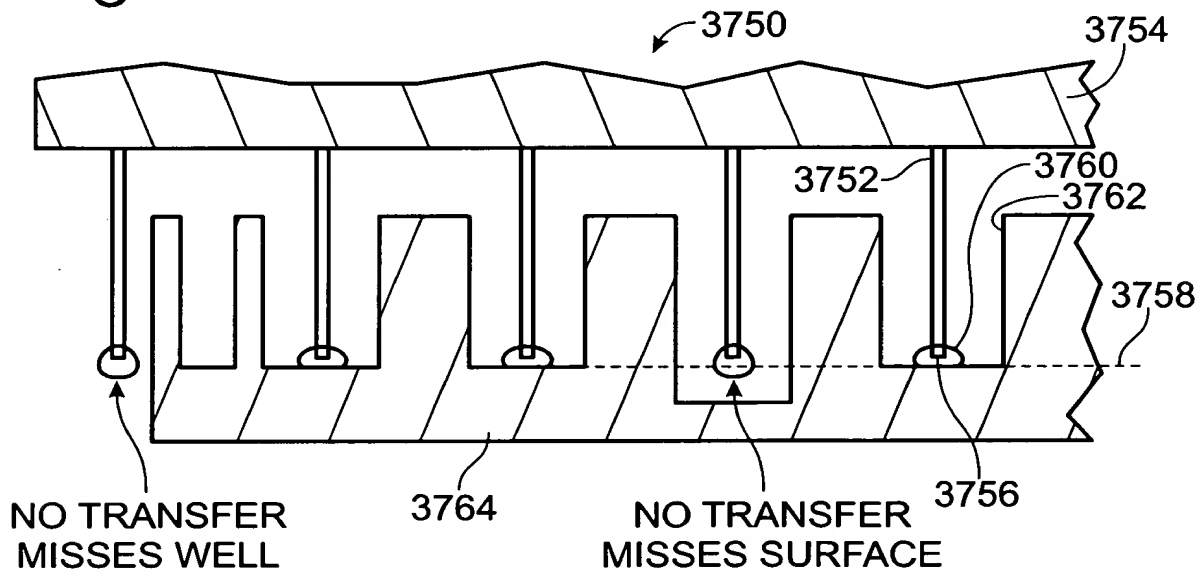

3700
STEP 1:
STEP 2:
3703
3702
3704
3714
A
D
3708
3706
3710
3712
B
E
3714
3716
C
F

Fig. 35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3754
3752
3760
3762
3758
3764
3756
NO TRANSFER
MISSES WELL
NO TRANSFER
MISSES SURFACE

Fig. 36

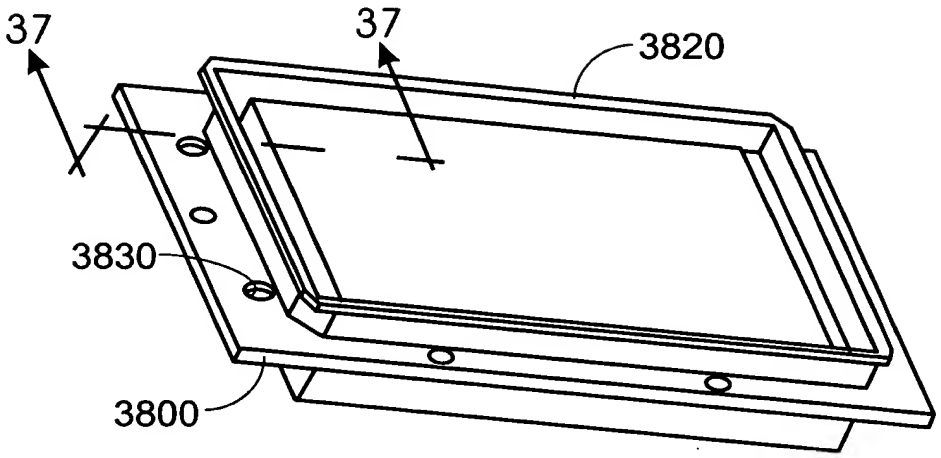
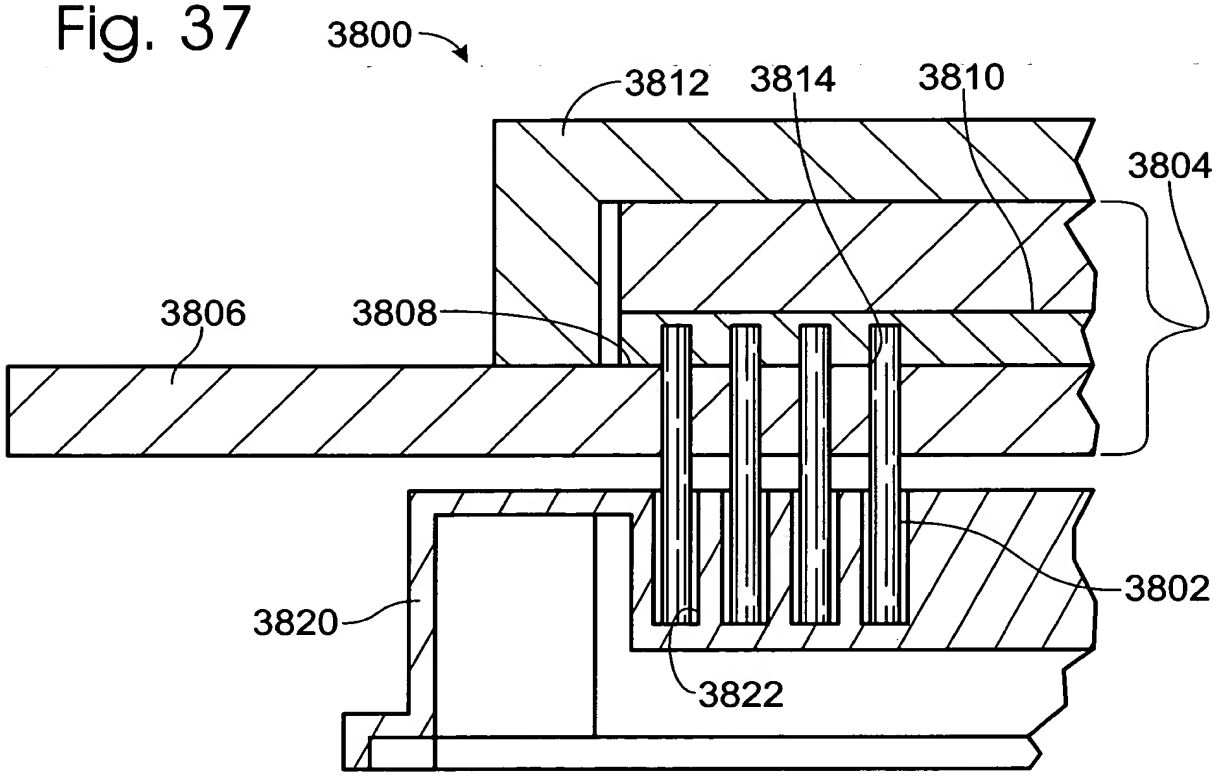

37
37
3820
3830
3800

Fig. 37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3812
3814
3810
3804
3806
3808
3802
3820
3822

Fig. 38

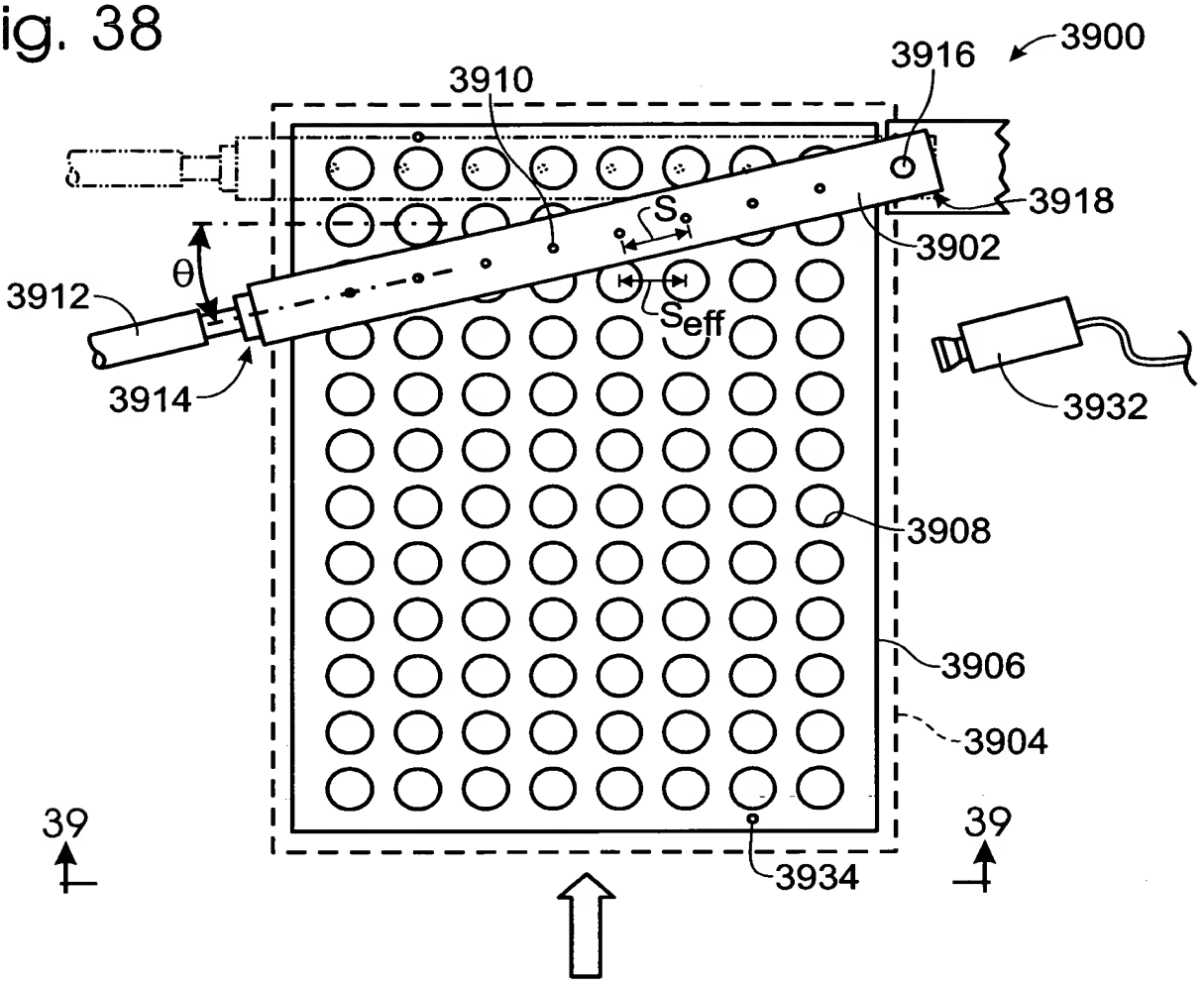
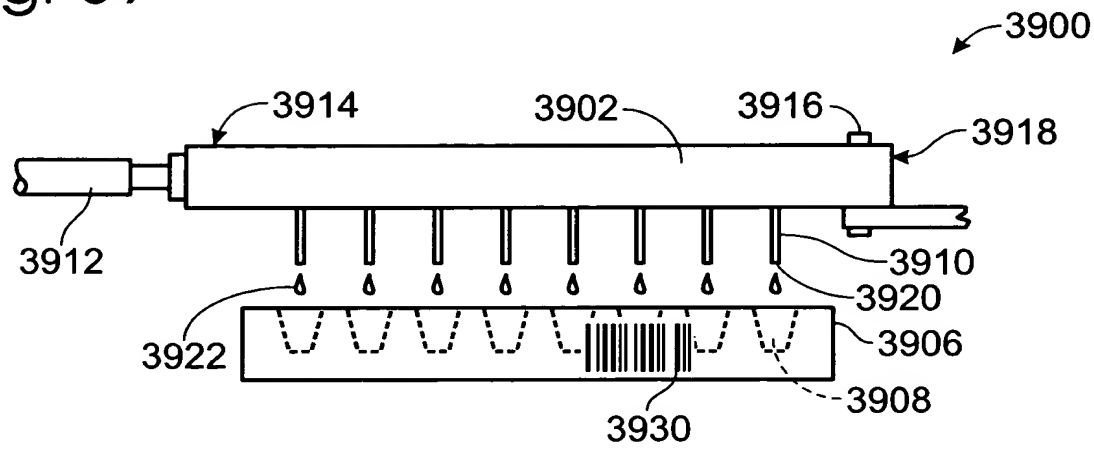

3900
3916
3910
3918
3902
S
θ
3912
Seff
3914
3932
3908
3906
3904
39
39
3934

Fig. 39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3920
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3906
3908
3930

Fig. 40

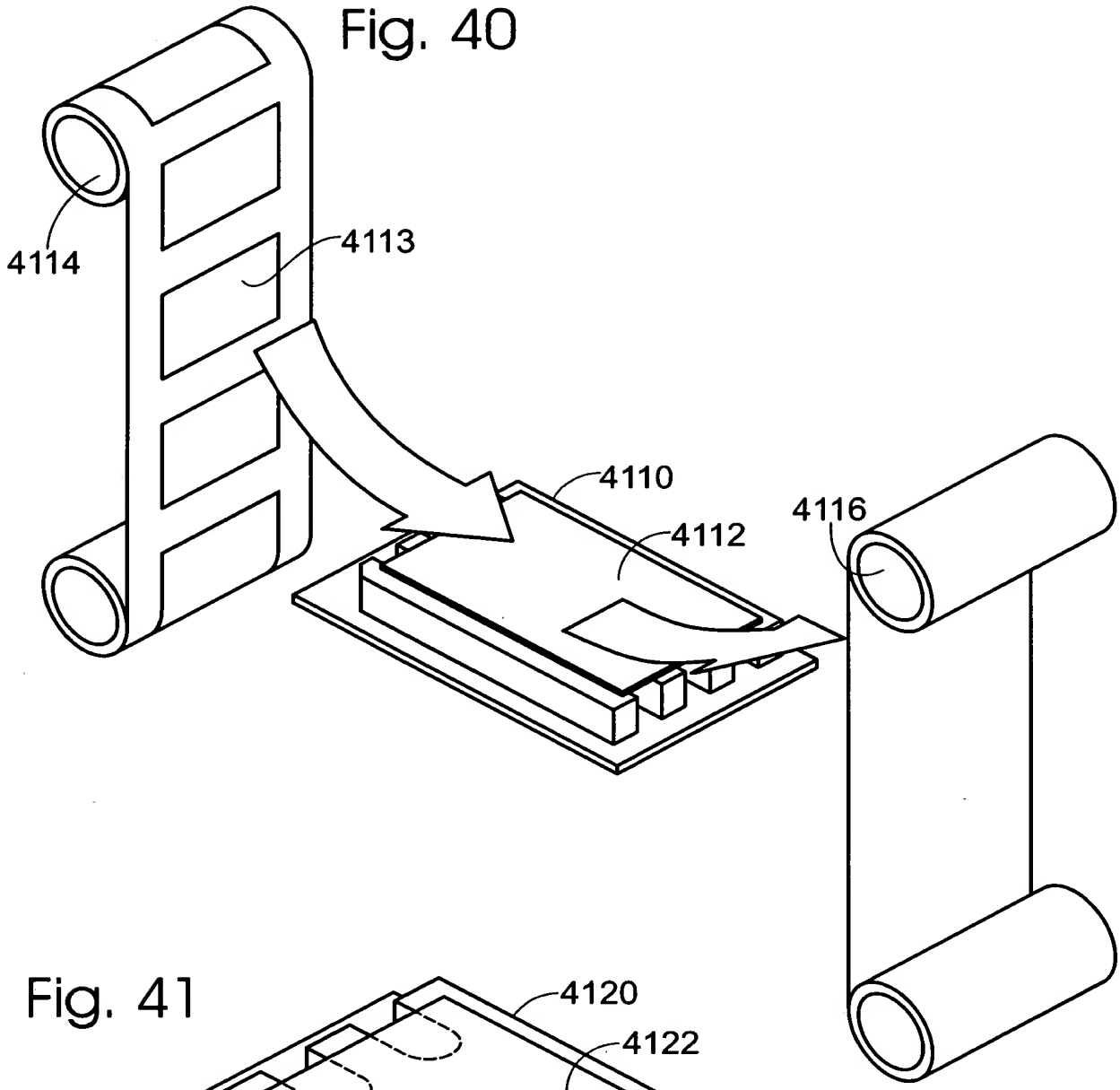


Fig. 41

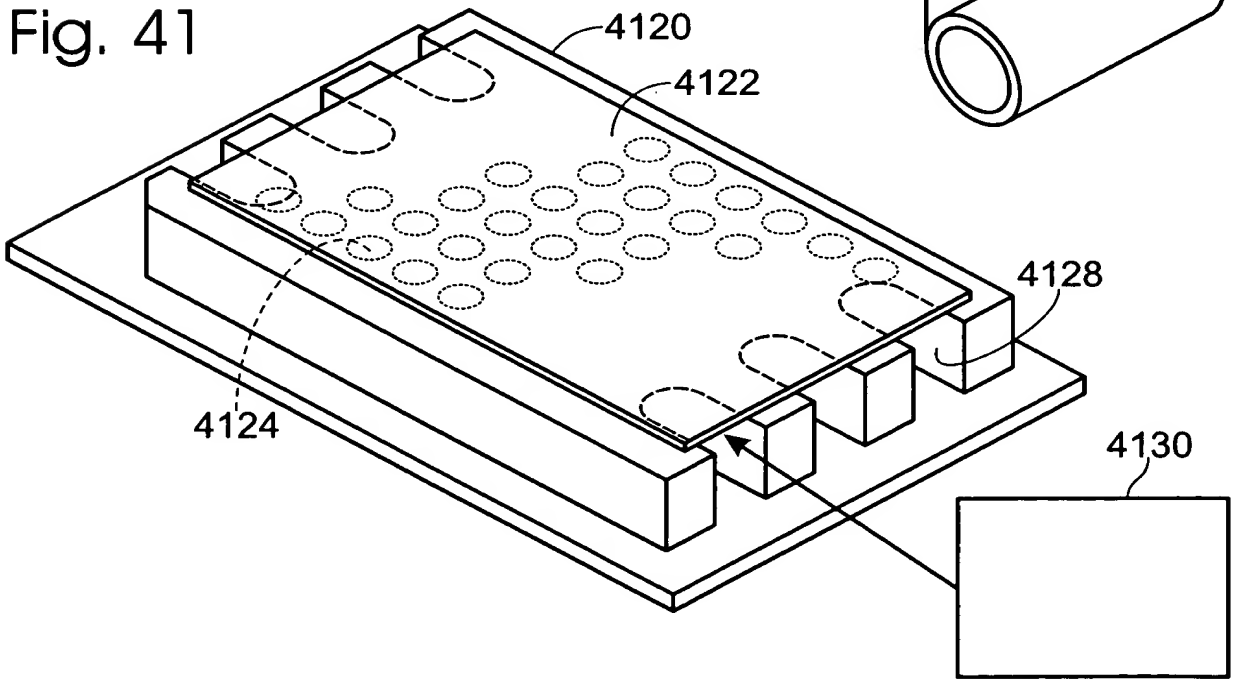


Fig. 42

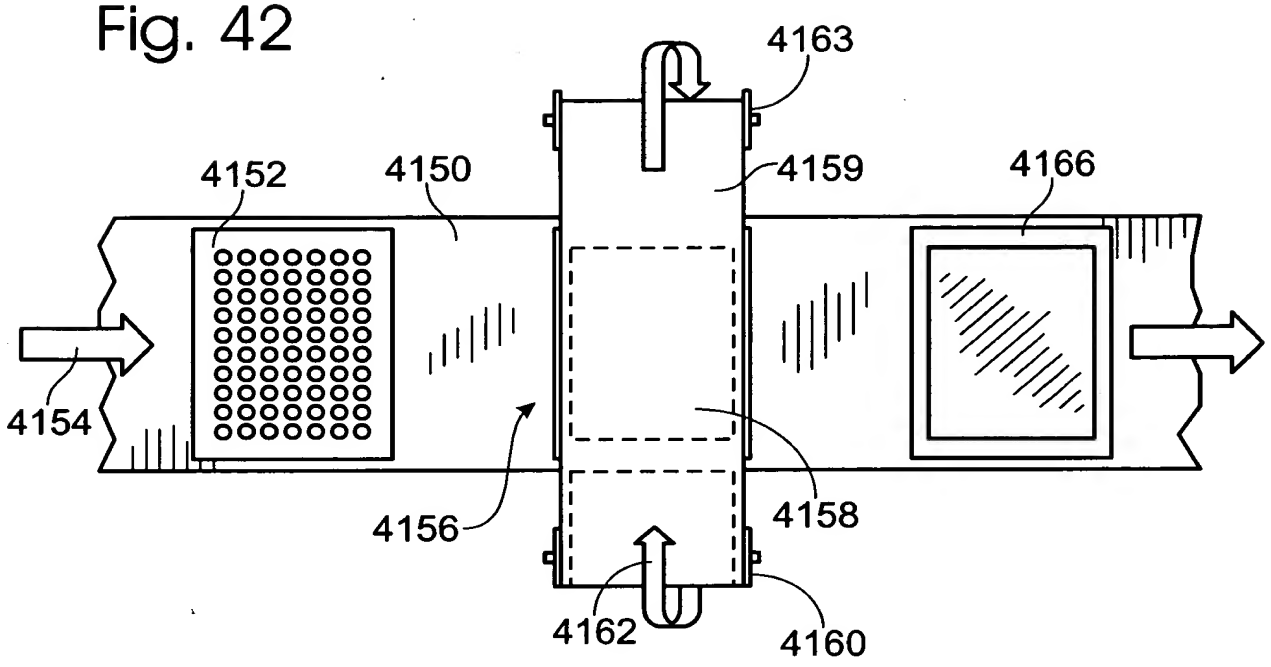
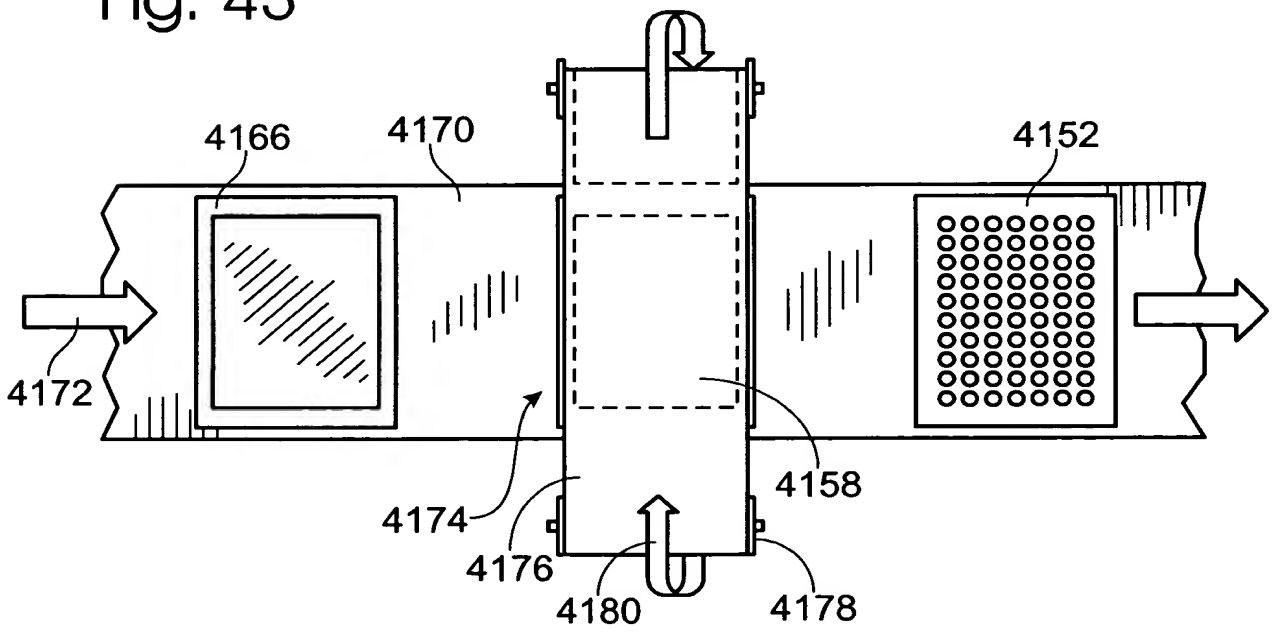

4163
4152
4150
4159
4166
4154
4156
4158
4162
4160

Fig. 43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4176
4180
4178

Fig. 44

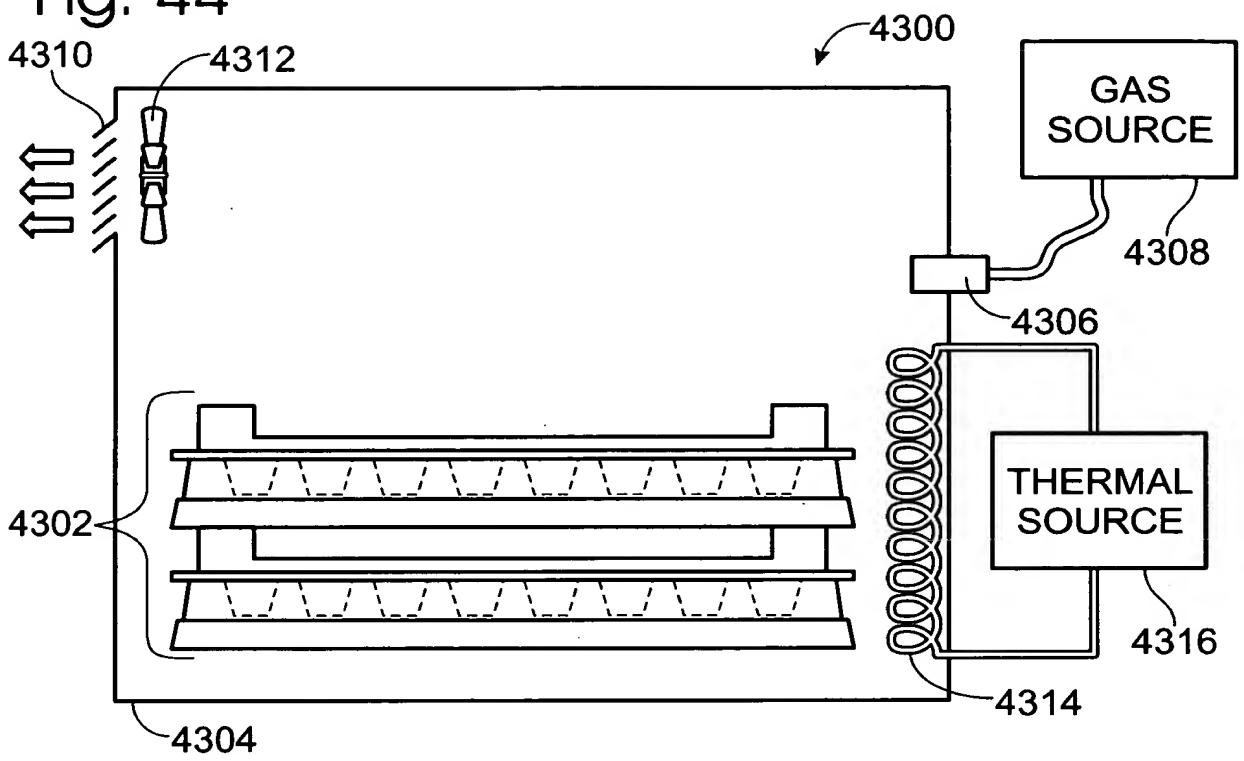


Fig. 45

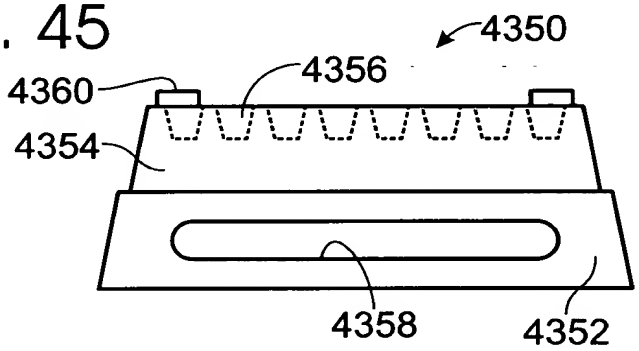


Fig. 46

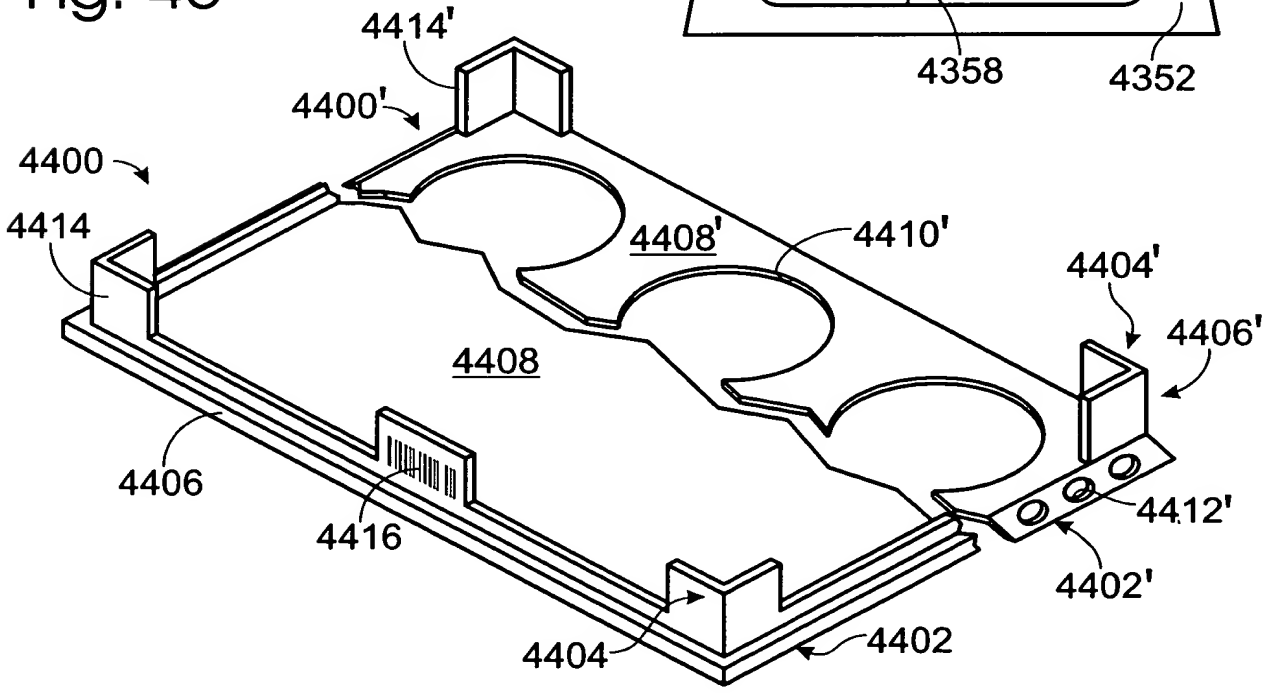


Fig. 47

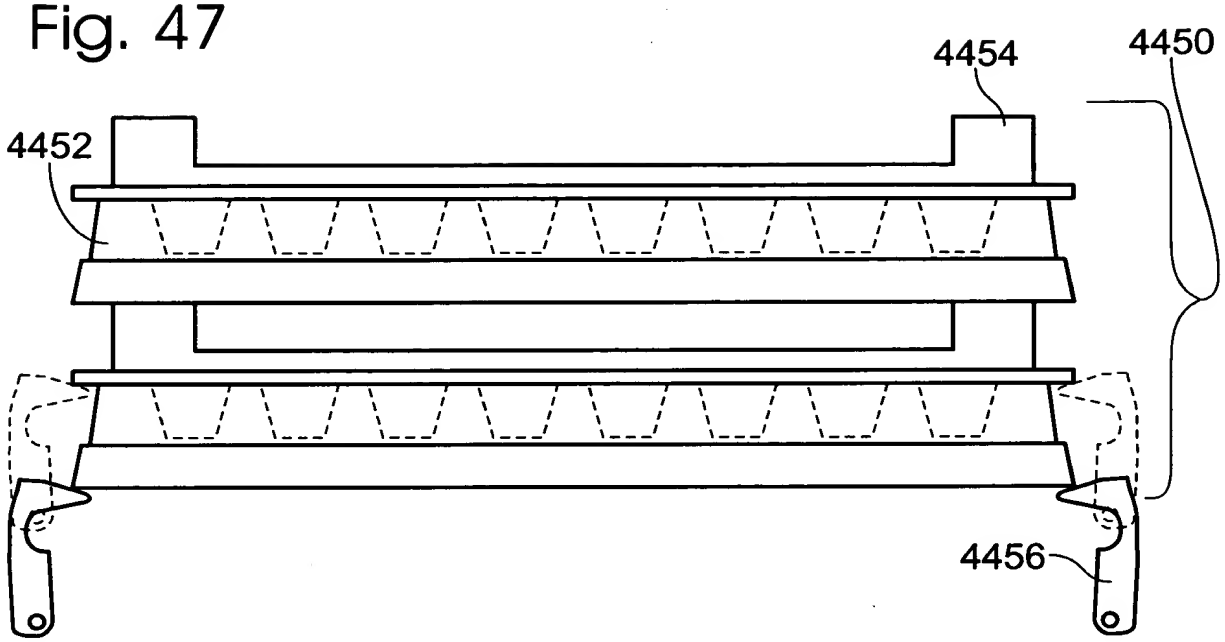
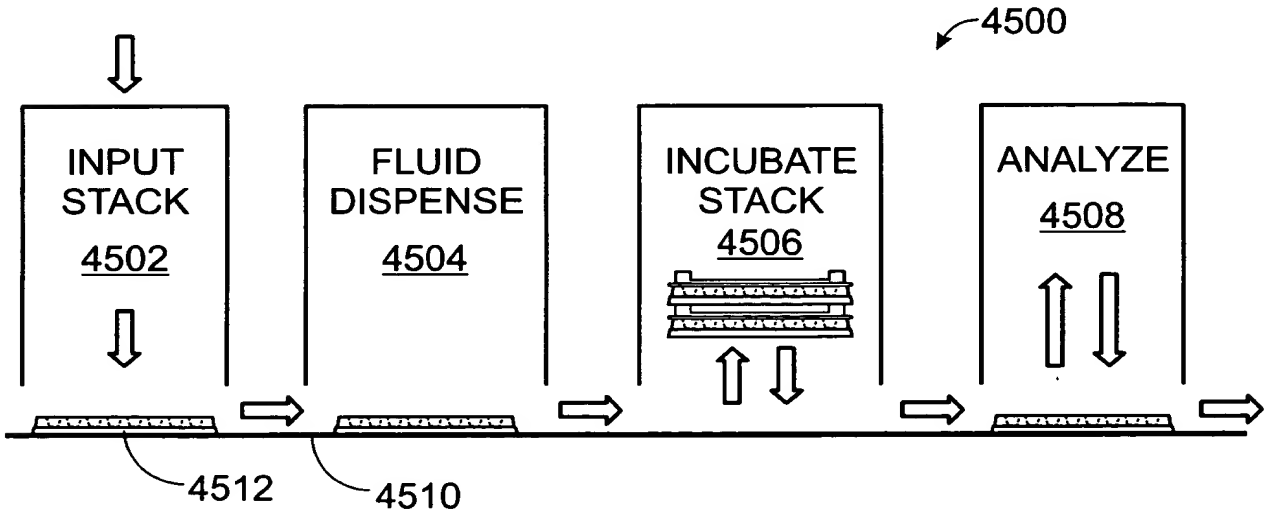

4454
4450
4452
4456

Fig. 48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INPUT STACK
4502
FLUID DISPENSE
4504
INCUBATE STACK
4506
ANALYZE
4508
4512
4510

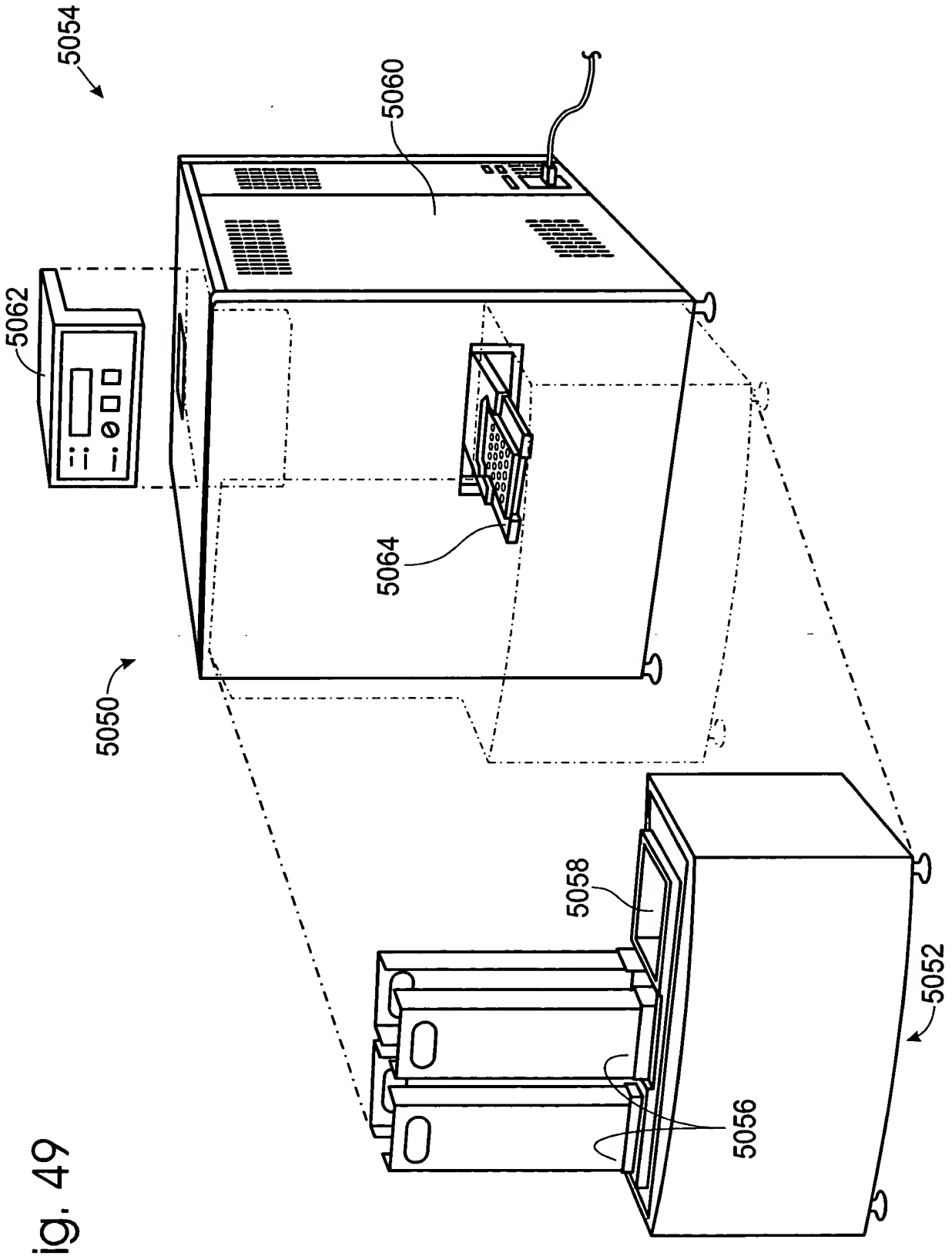


Fig. 49

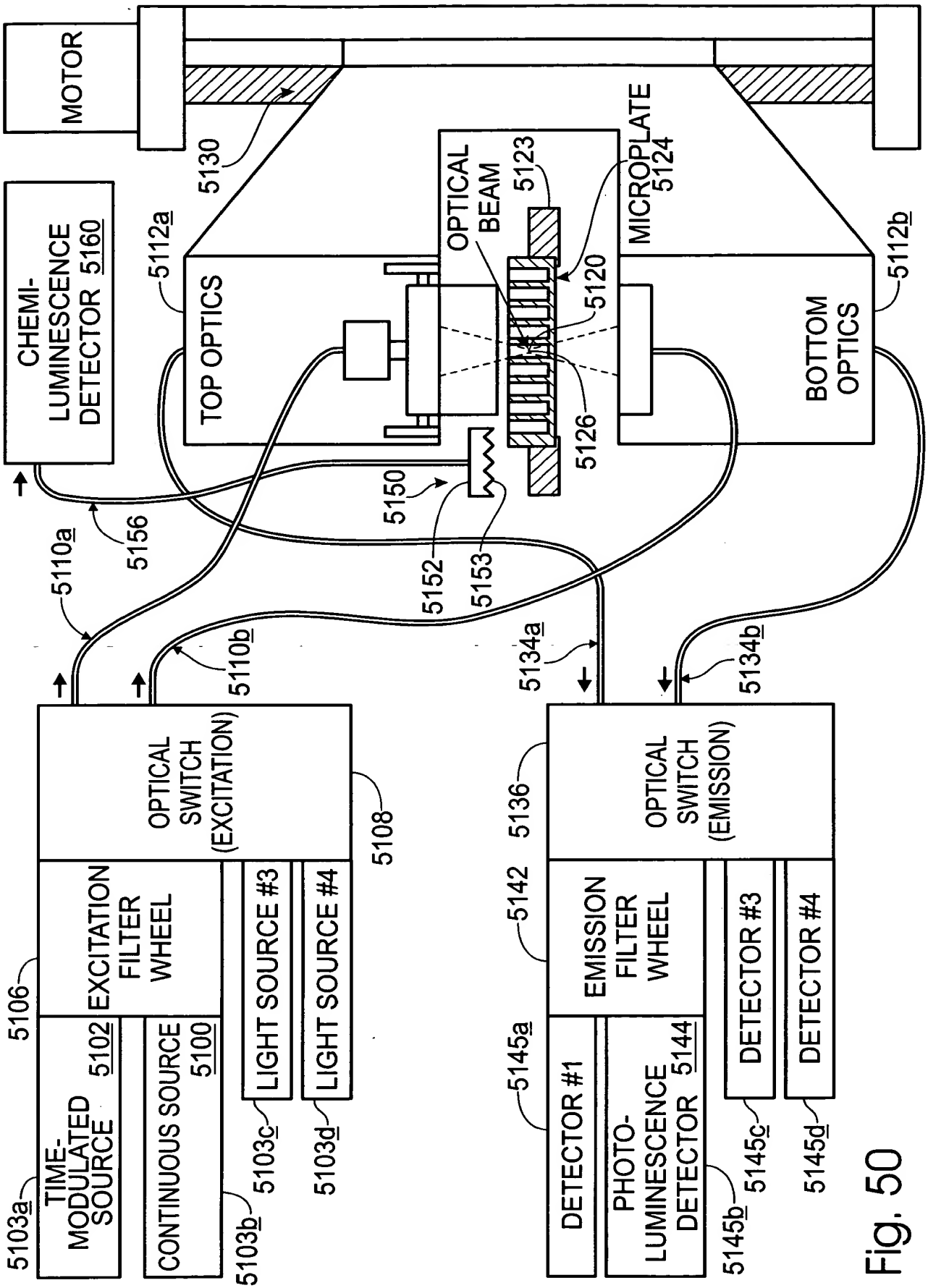
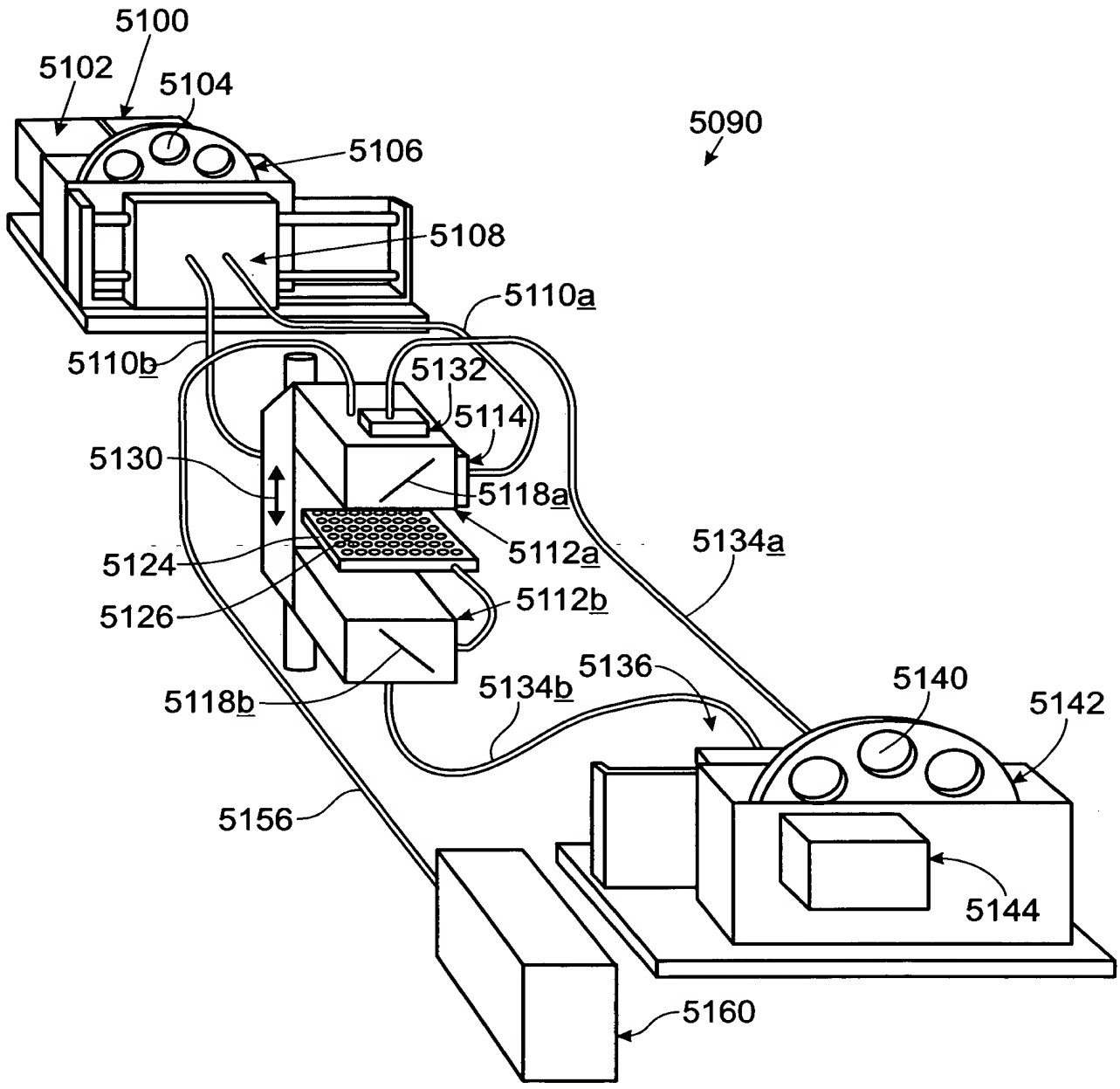

MOTOR
5130
CHEMI-LUMINESCENCE DETECTOR 5160
5112a
TOP OPTICS
OPTICAL BEAM
5123
MICROPLATE 5124
5120
5126
BOTTOM OPTICS
5112b
5150
5152
5153
5156
5110a
5110b
5134a
5134b
5103a
TIME-MODULATED SOURCE 5102
CONTINUOUS SOURCE 5100
5106
EXCITATION FILTER WHEEL
LIGHT SOURCE #3
LIGHT SOURCE #4
5103b
5103c
5103d
OPTICAL SWITCH (EXCITATION)
5108
5136
OPTICAL SWITCH (EMISSION)
5142
EMISSION FILTER WHEEL
5145a
DETECTOR #1
PHOTO-LUMINESCENCE DETECTOR 5144
5145b
DETECTOR #3
5145c
DETECTOR #4
5145d

Fig. 50

Fig. 51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5090
5106
5108
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5110b
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5114
5130
5118a
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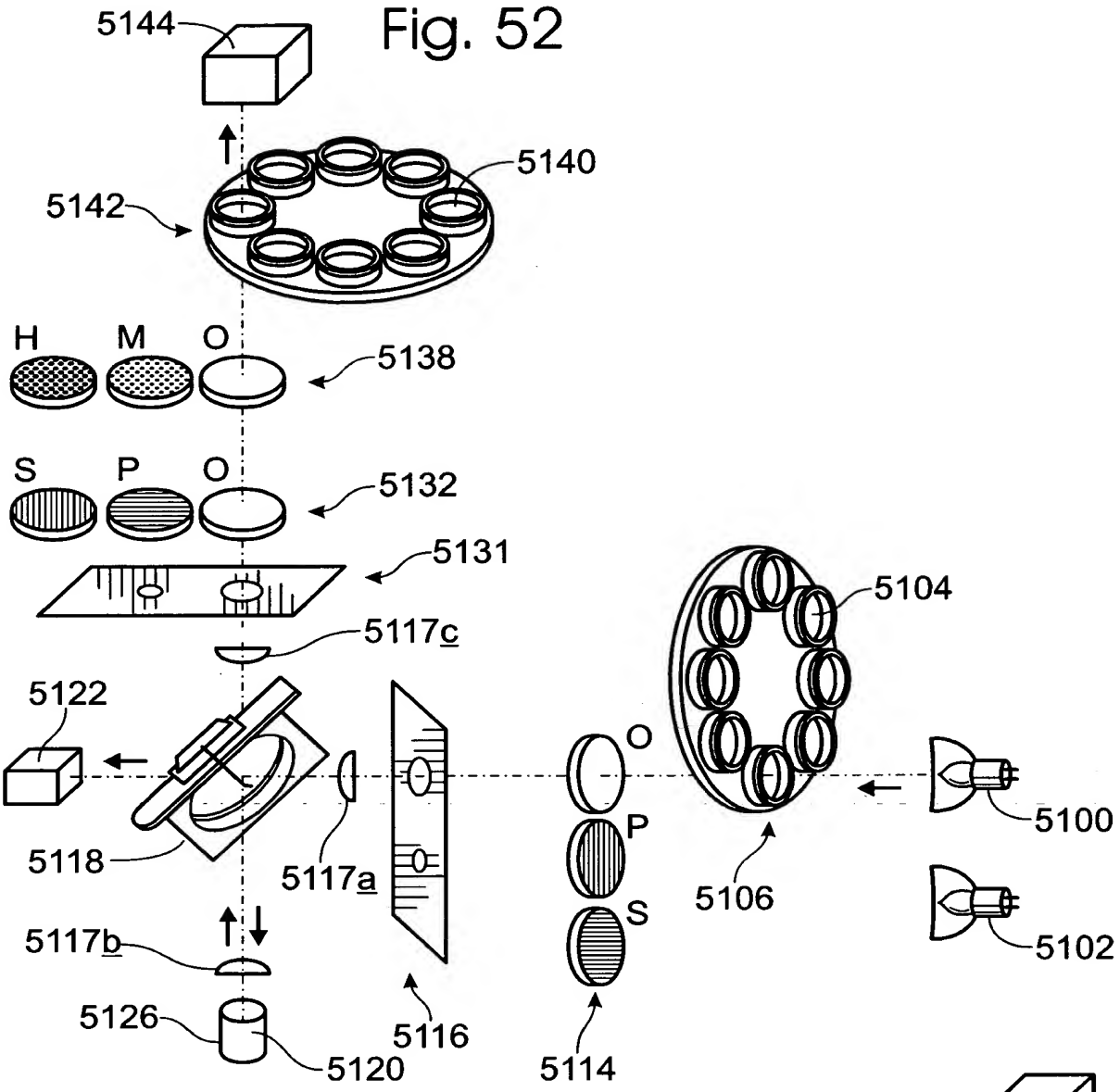
5126
5112b
5136
5140
5142
5118b
5134b
5156
5144
5160

Fig. 52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5142
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M
O
5138
S
P
O
5132
5131
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5118
5117a
P
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5100
S
5102
5117b
5126
5116
5120
5114

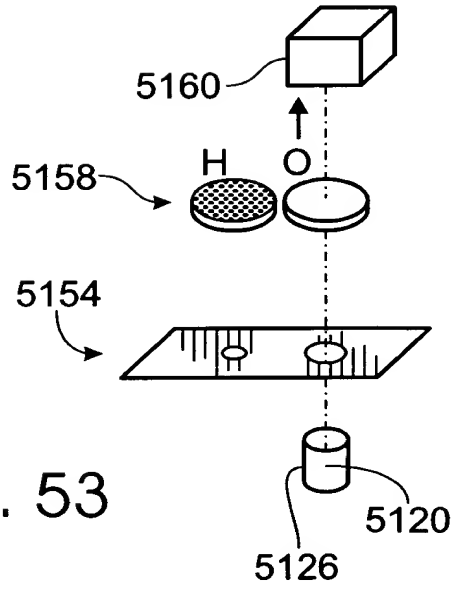
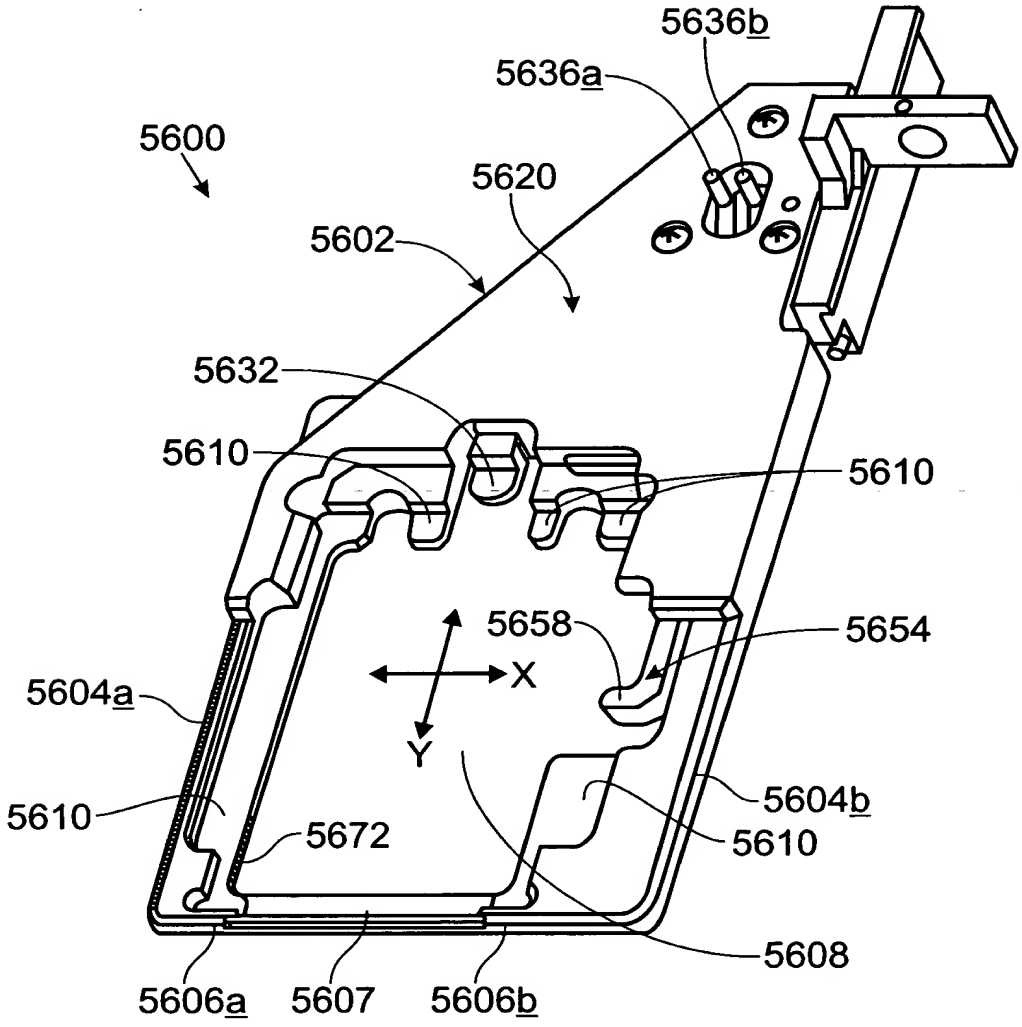

5160
H
O
5158
5154
5120
5126

Fig. 53

Fig. 54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5636a
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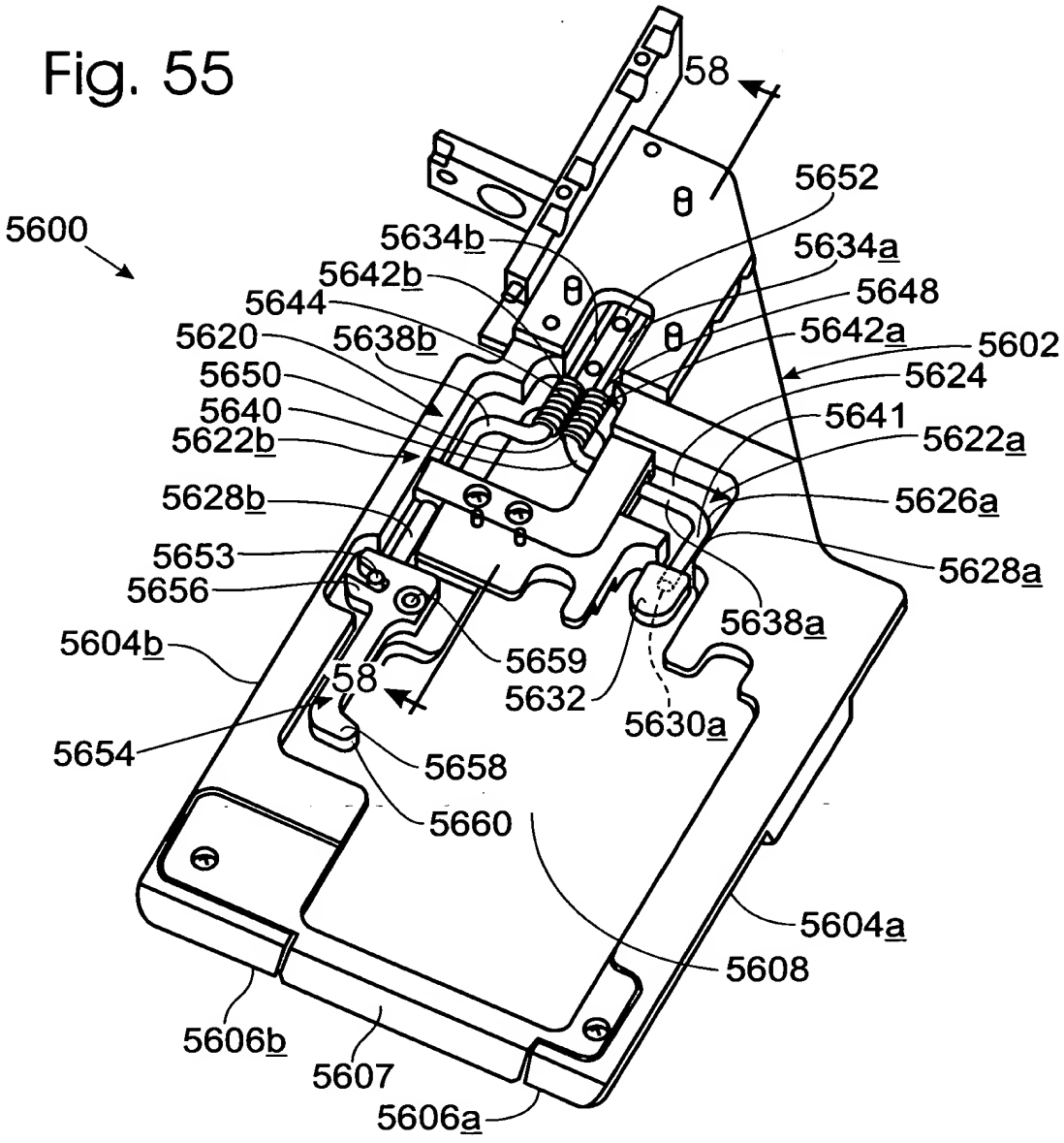
5602
5632
5610
5610
5658
5654
X
Y
5604a
5610
5672
5604b
5610
5608
5606a
5607
5606b

Fig. 55


5600
58
5652
θ
5634b
5634a
5642b
5644
5620
5638b
5650
5640
5622b
5628b
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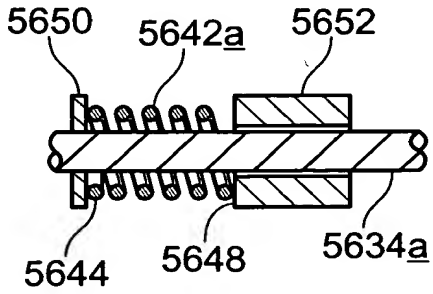
5656
5604b
5654
5658
5660
5606b
5607
5606a
5659
5632
5630a
5638a
5648
5642a
5602
5624
5641
5622a
5626a
5628a
5604a
5608

Fig. 56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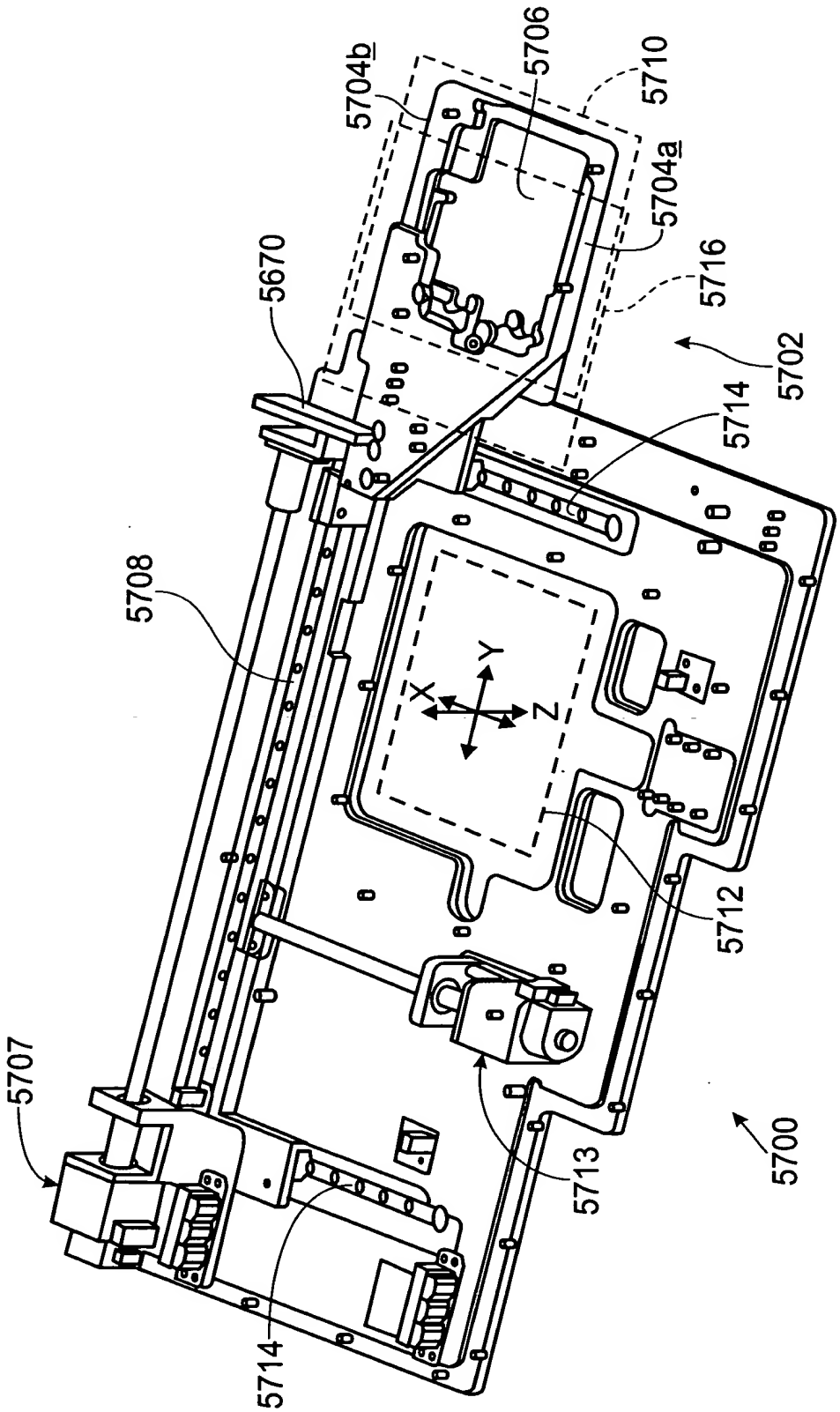
5642a
5652
5644
5648
5634a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5710
5704a
5670
5716
5702
5714
5708
Y
X
Z
5712
5707
5713
5700
5714

Fig. 57